

Multiplying polynomials - Integers - Simplify product of binomials and trinomials

Simplify integer product with one variable:

1) $(6n + 5)(5n^2 + n - 6)$

2) $(m - 3)(2m^2 + 6m + 3)$

3) $(3r + 2)(8r^2 - r + 4)$

4) $(6x - 1)(6x^2 + 5x - 1)$

5) $(2b + 1)(3b^2 + 4b + 7)$

6) $(n - 6)(6n^2 + 7n + 7)$

7) $(5v + 7)(v^2 + 6v + 1)$

8) $(2n - 8)(6n^2 - n + 6)$

9) $(8x + 4)(8x^2 - 5x + 6)$

10) $(4a + 6)(4a^2 - 5a + 6)$

11) $(p + 7)(7p^2 + 5p + 8)$

12) $(7k - 6)(3k^2 + 7k + 5)$

13) $(3x - 3)(7x^2 + 6x + 5)$

14) $(7n + 2)(6n^2 + 2n - 5)$

15) $(7m - 3)(7m^2 - 4m - 8)$

16) $(3r + 4)(r^2 + r - 5)$

17) $(6x + 1)(2x^2 - 5x - 1)$

18) $(8n + 7)(7n^2 - 8n - 6)$

19) $(2b + 4)(4b^2 - 4b - 6)$

20) $(5v - 8)(2v^2 + 8v - 6)$

21) $(8x + 6)(x^2 + 4x - 6)$

22) $(n - 6)(8n^2 + 8n + 1)$

23) $(3a - 1)(5a^2 + 3a + 1)$

24) $(7v - 3)(4v^2 - v + 1)$

$$25) (5x + 8)(8x^2 + x + 2)$$

$$26) (3x - 1)(x^2 + 3x - 1)$$

$$27) (8k + 1)(5k^2 - 3k - 3)$$

$$28) (2p + 6)(3p^2 - 7p - 1)$$

$$29) (6n + 4)(7n^2 - 7n + 4)$$

$$30) (5x + 4)(x^2 + 5x + 7)$$

$$31) (m + 6)(6m^2 + 4m + 7)$$

$$32) (8n - 8)(8n^2 - 8n + 7)$$

$$33) (4r - 6)(5r^2 + 6r + 4)$$

$$34) (7x - 1)(2x^2 + 3x + 6)$$

$$35) (4b + 2)(7b^2 - 5b + 6)$$

$$36) (n - 6)(n^2 + 7n - 5)$$

$$37) (6v - 1)(6v^2 + 7v + 5)$$

$$38) (8x + 4)(3x^2 - 6x + 5)$$

$$39) (3n + 1)(n^2 + 6n - 4)$$

$$40) (5a + 6)(4a^2 - 5a + 5)$$

$$41) (8k + 3)(7k^2 + 5k - 5)$$

$$42) (2p - 8)(4p^2 + p - 5)$$

$$43) (5x + 6)(3x^2 - 3x - 5)$$

$$44) (7n - 6)(n^2 - 6n - 6)$$

$$45) (m - 1)(7m^2 - 4m - 6)$$

$$46) (4r - 4)(6r^2 + 8r - 6)$$

$$47) (6x + 2)(4x^2 - 5x + 2)$$

$$48) (n - 1)(2n^2 + 7n + 1)$$

$$49) (3b + 4)(3b^2 + b + 1)$$

$$50) (5v + 1)(7v^2 + 7v + 1)$$

$$51) (6x + 2)(5x^2 - 5x - 5)$$

$$52) (2n + 3)(4n^2 - 2n - 4)$$

$$53) (5a - 8)(a^2 + a - 2)$$

$$54) (8v + 6)(8v^2 - 3v - 1)$$

$$55) (x - 6)(6x^2 - 8x - 1)$$

$$56) (4x - 1)(5x^2 + 5x + 7)$$

$$57) (7n - 4)(2n^2 - 8n + 7)$$

$$58) (k + 1)(2k^2 + 7k + 5)$$

$$59) (6x + 4)(5x^2 + 3x + 6)$$

$$60) (3p - 1)(8p^2 + 6p + 6)$$

$$61) (3n + 5)(5n^2 + 6n + 5)$$

$$62) (2m + 6)(2m^2 - 6m + 5)$$

$$63) (6r + 3)(7r^2 + 5r + 3)$$

$$64) (8x + 8)(6x^2 - 6x - 4)$$

$$65) (n + 6)(5n^2 + 6n - 4)$$

$$66) (5b - 6)(3b^2 - 7b - 5)$$

$$67) (7v - 1)(v^2 + 5v - 5)$$

$$68) (x - 4)(8x^2 + x - 5)$$

$$69) (4n + 1)(6n^2 + 5n - 5)$$

$$70) (6a - 2)(4a^2 - 6a - 4)$$

$$71) (k - 1)(5k^2 - 6k + 6)$$

$$72) (3p + 1)(5p^2 + 2p + 7)$$

$$73) (6x + 6)(7x^2 - 5x + 2)$$

$$74) (8n + 3)(5n^2 + 7n + 1)$$

$$75) (3m + 8)(4m^2 + 3m + 1)$$

$$76) (5r + 6)(r^2 + 7r + 1)$$

$$77) (7x - 6)(8x^2 + 2x - 2)$$

$$78) (2n - 1)(7n^2 - 2n - 1)$$

$$79) (4b - 4)(4b^2 + b + 1)$$

$$80) (7v + 1)(2v^2 - 3v + 2)$$

$$81) (x - 2)(x^2 - 8x + 7)$$

$$82) (3n + 4)(8n^2 - 4n + 7)$$

$$83) (6k - 7)(7k^2 + 7k - 1)$$

$$84) (6a + 1)(5a^2 - 8a + 7)$$

$$85) (3x + 3)(2x^2 + 8x + 6)$$

$$86) (5x + 8)(2x^2 + 2x - 8)$$

$$87) (7n + 5)(6n^2 - n + 6)$$

$$88) (2k - 6)(5k^2 + 2k + 5)$$

$$89) (4p - 1)(3p^2 - 2p - 4)$$

$$90) (7x - 4)(x^2 - 6x - 4)$$

$$91) (n + 1)(8n^2 + 6n - 4)$$

$$92) (3m - 2)(6m^2 - 7m - 5)$$

$$93) (6r + 3)(4r^2 + 5r - 5)$$

$$94) (3x - 4)(7x^2 - 5x + 4)$$

$$95) (3n + 6)(8n^2 - 5n + 6)$$

$$96) (5b + 3)(7b^2 - 6b + 7)$$

$$97) (8v + 8)(6v^2 - 4v + 2)$$

$$98) (2x + 5)(3x^2 - x + 2)$$

$$99) (4x - 7)(x^2 - 5x + 2)$$

$$100) (8a + 8)(3a^2 + a - 4)$$

$$101) (3k - 9)(4k^2 - 8k - 1)$$

$$102) (3x + 1)(10x^2 - 4x + 2)$$

$$103) (4p + 6)(8p^2 - 10p + 7)$$

$$104) (9n + 2)(12n^2 + 4n - 10)$$

$$105) (11m + 11)(7m^2 + 7m + 6)$$

$$106) (11x - 3)(7x^2 - 9x + 2)$$

$$107) (8n - 7)(5n^2 + 8n - 7)$$

$$108) (6r + 10)(10r^2 - 10r - 10)$$

$$109) \ (10b + 7)(5b^2 - 3b - 5)$$

$$110) \ (5x - 7)(3x^2 + 9x - 2)$$

$$111) \ (8v + 3)(11v^2 + 12v - 3)$$

$$112) \ (8n - 11)(8n^2 - 2n - 11)$$

$$113) \ (2k - 1)(k^2 + 9k + 10)$$

$$114) \ (5a + 10)(9a^2 - 12a + 2)$$

$$115) \ (5x - 5)(6x^2 - x + 12)$$

$$116) \ (2x + 9)(12x^2 - 11x - 11)$$

$$117) \ (8n - 12)(3n^2 + 9n + 9)$$

$$118) \ (2k - 5)(4k^2 - 8k - 4)$$

$$119) \ (12p - 9)(10p^2 - 11p - 6)$$

$$120) \ (12n + 1)(2n^2 - 2n + 8)$$

$$121) \ (10x + 5)(2x^2 + 11x - 4)$$

$$122) \ (10m - 10)(7m^2 - 10m + 6)$$

$$123) \ (7r + 12)(5r^2 + 8r - 10)$$

$$124) \ (9x + 8)(10x^2 + 10x + 3)$$

$$125) \ (7n - 3)(5n^2 - 9n + 11)$$

$$126) \ (7v + 7)(3v^2 + 2v - 10)$$

$$127) \ (4b - 7)(11b^2 + 5b - 12)$$

$$128) \ (4x + 3)(3x^2 - 9x - 8)$$

$$129) \ (x - 7)(9x^2 + 6x - 7)$$

$$130) \ (k + 3)(6k^2 - 8k + 4)$$

$$131) \ (4a - 11)(a^2 + 3a - 5)$$

$$132) \ (12p - 1)(7p^2 + 7p + 6)$$

$$133) \ (x - 12)(12x^2 + 3x + 7)$$

$$134) \ (11n + 9)(4n^2 - 7n + 9)$$

$$135) \ (9m + 6)(10m^2 + 7m + 11)$$

$$136) \ (11r - 5)(10r^2 + 4r - 12)$$

$$137) \ (9x - 9)(2x^2 - 6x - 11)$$

$$138) \ (9b + 1)(8b^2 + 5b - 3)$$

$$139) \ (6n + 5)(7n^2 + 8n - 9)$$

$$140) \ (6v - 10)(7v^2 + v + 9)$$

$$141) \ (3x + 12)(5x^2 + 9x + 3)$$

$$142) \ (6n + 1)(11n^2 + 5n + 5)$$

$$143) \ (3a - 3)(11a^2 - 5a + 7)$$

$$144) \ (k + 11)(3k^2 + 10k + 8)$$

$$145) \ (3x + 7)(9x^2 - x + 10)$$

$$146) \ (8x + 3)(12x^2 + 12x - 9)$$

$$147) \ (11n - 7)(n^2 + 10n - 4)$$

$$148) \ (8m - 11)(7m^2 - 3m - 9)$$

$$149) \ (11p + 3)(12p^2 - 4p - 1)$$

$$150) \ (8x - 1)(4x^2 + 11x + 1)$$

$$151) \ (5n - 12)(5n^2 + n + 2)$$

$$152) \ (8m + 10)(10m^2 - 3m + 4)$$

$$153) \ (5r - 1)(2r^2 + 12r + 6)$$

$$154) \ (3x - 5)(8x^2 + x + 8)$$

$$155) \ (5n + 9)(8n^2 - 2n + 9)$$

$$156) \ (2b + 5)(4b^2 - 7b - 3)$$

$$157) \ (9v + 5)(10v^2 - 5v + 10)$$

$$158) \ (2x - 9)(6x^2 - x - 3)$$

$$159) \ (6x - 11)(6x^2 + 10x - 8)$$

$$160) \ (10a + 1)(3a^2 + 3a - 3)$$

$$161) \ (12k - 3)(9k^2 - k + 2)$$

$$162) \ (10p + 11)(9p^2 - 11p + 3)$$

$$163) \ (7x + 7)(x^2 + 4x + 5)$$

$$164) \ (10n - 3)(7n^2 - 7n - 11)$$

$$165) (7m - 7)(12m^2 - 10m - 9)$$

$$166) (4r + 7)(12r^2 + 4r - 8)$$

$$167) (7x + 3)(5x^2 - 6x - 6)$$

$$168) (4n - 1)(10n^2 - 10n - 4)$$

$$169) (2b - 12)(2b^2 + 5b - 2)$$

$$170) (4v + 10)(3v^2 - 5v - 1)$$

$$171) (2x - 1)(8x^2 - 9x + 1)$$

$$172) (12n - 5)(2n^2 + 10n + 3)$$

$$173) (12k + 5)(6k^2 - 8k - 12)$$

$$174) (9x - 6)(11x^2 + 6x - 10)$$

$$175) (a + 9)(7a^2 + 12a - 9)$$

$$176) (12x - 9)(3x^2 - 4x - 8)$$

$$177) (9n + 5)(4n^2 - 7n - 7)$$

$$178) (6m + 1)(9m^2 + 7m - 5)$$

$$179) (9p - 3)(p^2 - 3p - 3)$$

$$180) (6x + 11)(7x^2 + 11x - 1)$$

$$181) (4n + 8)(7n^2 + 8n + 7)$$

$$182) (6m - 3)(12m^2 - 3m + 9)$$

$$183) (3r - 7)(5r^2 + 12r + 11)$$

$$184) (x + 7)(10x^2 + 9x - 12)$$

$$185) (3n + 3)(10n^2 - 2n - 11)$$

$$186) (b - 8)(3b^2 - 12b - 9)$$

$$187) (11v - 11)(8v^2 + 9v - 7)$$

$$188) (x - 3)(12x^2 - 6x - 8)$$

$$189) (11x - 1)(4x^2 + 3x + 4)$$

$$190) (8a - 5)(6a^2 + 10a + 5)$$

$$191) (11k + 9)(11k^2 + 7k + 4)$$

$$192) (8p + 5)(11p^2 - 11p + 8)$$

$$193) (5x - 5)(4x^2 + 11x + 10)$$

$$194) (8n - 9)(9n^2 + 12n - 9)$$

$$195) (5m + 5)(m^2 - 10m - 11)$$

$$196) (3r + 1)(2r^2 + 11r - 10)$$

$$197) (5x - 10)(7x^2 + x - 1)$$

$$198) (2n + 11)(12n^2 - 9n + 1)$$

$$199) (3b + 7)(10b^2 + 2b + 11)$$

$$200) (2v - 3)(5v^2 + 2v + 4)$$

$$201) (7n - 20)(17n^2 - 16n + 1)$$

$$202) (11x - 8)(6x^2 + x + 10)$$

$$203) (17a + 14)(5a^2 - 9a + 18)$$

$$204) (13k - 12)(3k^2 - 19k - 18)$$

$$205) (9x + 9)(14x^2 + 5x + 14)$$

$$206) (19x - 3)(3x^2 + 19x - 4)$$

$$207) (15n + 17)(12n^2 - 14n - 5)$$

$$208) (12m + 5)(10m^2 - 16m + 18)$$

$$209) (17x + 13)(10x^2 - 18x - 15)$$

$$210) (14n - 7)(7n^2 + 5n - 10)$$

$$211) (3p - 12)(11p^2 + 9p - 12)$$

$$212) (20r + 1)(7r^2 + 2r + 13)$$

$$213) (16x - 20)(17x^2 - 15x - 6)$$

$$214) (10b + 13)(18b^2 + 20b - 19)$$

$$215) (12n + 9)(15n^2 - n - 15)$$

$$216) (b - 11)(4b^2 - 18b + 17)$$

$$217) (18v + 18)(14v^2 + 6v + 8)$$

$$218) (15x - 3)(4x^2 - 12x - 2)$$

$$219) (3x - 15)(x^2 + 3x - 11)$$

$$220) (20a + 5)(11a^2 - 15a - 20)$$

$$221) (17k - 7)(k^2 + 9k + 12)$$

$$222) (5p + 14)(19p^2 - 18p - 7)$$

$$223) (7m + 1)(8m^2 + 3m + 6)$$

$$224) (2x - 7)(8x^2 + 6x - 16)$$

$$225) (19n - 19)(18n^2 - 11n + 16)$$

$$226) (4r - 11)(5r^2 - 14r - 3)$$

$$227) (10x + 9)(14x^2 - 12x - 3)$$

$$228) (10n - 2)(5n^2 - 17n + 20)$$

$$229) (6b + 18)(15b^2 + 6b + 10)$$

$$230) (2v + 6)(12v^2 - 11v + 1)$$

$$231) (8n + 14)(12n^2 - 14n + 15)$$

$$232) (12x - 15)(2x^2 + 4x - 17)$$

$$233) (5a - 7)(a^2 + 10a + 5)$$

$$234) (14k + 14)(20k^2 - 8k - 4)$$

$$235) (7x - 19)(19x^2 - 11x + 18)$$

$$236) (16n + 10)(17n^2 + 13n + 9)$$

$$237) (11x + 2)(9x^2 + 7x - 13)$$

$$238) (13m - 11)(6m^2 - 13m - 10)$$

$$239) (9p + 18)(16p^2 + 10p - 18)$$

$$240) (19x - 2)(5x^2 - 7x + 13)$$

$$241) (15n - 14)(3n^2 + 7n + 4)$$

$$242) (11b + 6)(13b^2 - 10b - 5)$$

$$243) (5r + 6)(10r^2 - 14r + 4)$$

$$244) (17x + 14)(13x^2 - 13x + 17)$$

$$245) (14n - 7)(10n^2 + 11n + 8)$$

$$246) (2b - 18)(20b^2 - 7b - 1)$$

$$247) (16x - 10)(20x^2 - 10x + 12)$$

$$248) (19v + 2)(10v^2 + 8v - 19)$$

$$249) \ (4x + 10)(17x^2 + 14x + 3)$$

$$250) \ (a - 2)(7a^2 - 13a - 6)$$

$$251) \ (18k + 19)(17k^2 + 11k - 16)$$

$$252) \ (6p + 7)(14p^2 - 6p + 16)$$

$$253) \ (3x - 14)(4x^2 + 17x + 7)$$

$$254) \ (20n + 15)(14n^2 - 9n - 2)$$

$$255) \ (9m - 6)(3m^2 + 14m - 12)$$

$$256) \ (5r + 14)(r^2 - 3r + 11)$$

$$257) \ (x + 3)(11x^2 + 12x + 2)$$

$$258) \ (11n - 18)(3n^2 - 7n - 17)$$

$$259) \ (7b + 11)(10b^2 + 18b - 17)$$

$$260) \ (4v - 10)(8v^2 - 9v + 15)$$

$$261) \ (13x + 19)(18x^2 + 15x + 6)$$

$$262) \ (10n - 2)(7n^2 - 3n - 4)$$

$$263) \ (6a - 13)(18a^2 + 12a - 13)$$

$$264) \ (15k + 7)(15k^2 - 5k + 10)$$

$$265) \ (12x - 5)(4x^2 + 18x + 1)$$

$$266) \ (8x + 15)(15x^2 - 8x - 9)$$

$$267) \ (18n - 6)(12n^2 + 15n - 18)$$

$$268) \ (14m - 18)(m^2 - 2m + 14)$$

$$269) \ (10p + 3)(12p^2 + 12p + 5)$$

$$270) \ (20x - 9)(x^2 - 5x - 5)$$

$$271) \ (16n + 11)(19n^2 + 19n - 14)$$

$$272) \ (13b - 1)(9b^2 + b + 9)$$

$$273) \ (9r + 19)(19r^2 + 16r - 6)$$

$$274) \ (18x + 7)(8x^2 - 2x - 10)$$

$$275) \ (15n - 13)(5n^2 - 19n - 19)$$

$$276) \ (11a + 16)(16a^2 - 5a + 13)$$

$$277) (20v - 16)(2v^2 + 3v - 20)$$

$$278) (17x + 15)(15x^2 + 2x - 6)$$

$$279) (13x + 3)(13x^2 + 16x - 15)$$

$$280) (2a - 18)(2a^2 - a + 17)$$

$$281) (19k + 12)(12k^2 - 19k - 2)$$

$$282) (16p - 9)(2p^2 - 4p - 11)$$

$$283) (4x + 20)(20x^2 + 19x - 20)$$

$$284) (3n - 5)(11n^2 + 12n - 13)$$

$$285) (18m - 13)(20m^2 + 17m + 2)$$

$$286) (6r + 8)(17r^2 - r - 7)$$

$$287) (3x - 4)(6x^2 - 18x - 16)$$

$$288) (20n + 16)(17n^2 + 5n + 15)$$

$$289) (8b - 5)(6b^2 + 20b - 3)$$

$$290) (5v - 17)(3v^2 + 2v - 12)$$

$$291) (x + 3)(13x^2 - 15x + 20)$$

$$292) (7a + 12)(13a^2 - 18a + 1)$$

$$293) (11n - 8)(3n^2 + 10n - 9)$$

$$294) (4k + 18)(2k^2 - 8k - 17)$$

$$295) (13x + 20)(18x^2 - 17x - 20)$$

$$296) (9x + 8)(10x^2 + 3x + 14)$$

$$297) (6n - 13)(20n^2 - 15n + 5)$$

$$298) (15m + 17)(18m^2 - 13m + 10)$$

$$299) (12p - 4)(7p^2 - 17p + 18)$$

$$300) (8x + 16)(17x^2 + 6x + 9)$$

$$301) (35n - 12)(12n^2 - 4n - 47)$$

$$302) (23b + 32)(16b^2 - 2b - 16)$$

$$303) (10r + 19)(32r^2 + 11r - 29)$$

$$304) (23x - 37)(49x^2 - 20x - 41)$$

$$305) (48a - 6)(5a^2 + 5a - 8)$$

$$306) (10n - 50)(40n^2 - 8n + 48)$$

$$307) (10v - 19)(22v^2 + 17v - 21)$$

$$308) (48x + 25)(38x^2 - 14x - 33)$$

$$309) (48a - 44)(45a^2 + 11a + 44)$$

$$310) (36x + 12)(29x^2 - 2x - 45)$$

$$311) (35k - 41)(9k^2 + 31k + 26)$$

$$312) (35x + 31)(18x^2 + 5x + 7)$$

$$313) (23n + 18)(35n^2 - 27n - 50)$$

$$314) (23p - 13)(27p^2 - 8p + 19)$$

$$315) (22r + 50)(42r^2 - 2r + 27)$$

$$316) (10m - 39)(33m^2 + 39m + 9)$$

$$317) (10x - 7)(8x^2 - 33x + 15)$$

$$318) (48n - 20)(24n^2 - 20n + 2)$$

$$319) (48v + 11)(32v^2 - 39v - 22)$$

$$320) (10b + 24)(40b^2 - 8b - 10)$$

$$321) (35x - 45)(48x^2 - 27x - 34)$$

$$322) (48n - 1)(13n^2 - 14n - 47)$$

$$323) (23k + 30)(21k^2 - 33k - 14)$$

$$324) (35a - 14)(30a^2 - 46a - 2)$$

$$325) (35p + 17)(37p^2 - 20p - 27)$$

$$326) (23x - 40)(2x^2 - 8x - 39)$$

$$327) (22m - 8)(10m^2 - 27m + 38)$$

$$328) (10p - 21)(26p^2 - 14p + 25)$$

$$329) (10n + 49)(19n^2 - 39n + 50)$$

$$330) (48x + 23)(43x^2 - 46x + 13)$$

$$331) (10n + 10)(34n^2 - 33n - 43)$$

$$332) (35r - 2)(16r^2 + 49r + 33)$$

$$333) (48x - 15)(32x^2 - 39x + 21)$$

$$334) (48b - 47)(50b^2 - 20b + 46)$$

$$335) (35n + 29)(23n^2 - 27n + 9)$$

$$336) (23a + 16)(40a^2 + 43a - 4)$$

$$337) (22x + 47)(21x^2 - 33x - 28)$$

$$338) (10v - 41)(5v^2 - 46v - 16)$$

$$339) (10x - 9)(13x^2 + 37x + 17)$$

$$340) (48n - 22)(29n^2 + 49n + 4)$$

$$341) (10k + 22)(45k^2 - 39k - 8)$$

$$342) (48p + 9)(10p^2 - 27p - 20)$$

$$343) (35x - 48)(2x^2 + 43x - 32)$$

$$344) (35m - 16)(34m^2 - 33m + 44)$$

$$345) (48n - 4)(18n^2 - 46n - 45)$$

$$346) (23r + 28)(10r^2 + 32r + 9)$$

$$347) (35x + 15)(42x^2 + 49x + 20)$$

$$348) (22n - 42)(7n^2 - 39n - 37)$$

$$349) (10b + 46)(24b^2 + 30b - 49)$$

$$350) (22v - 11)(15v^2 + 43v + 40)$$

$$351) (10x - 23)(31x^2 - 45x + 27)$$

$$352) (48n + 21)(48n^2 + 24n + 15)$$

$$353) (9a + 8)(13a^2 + 37a + 3)$$

$$354) (48k - 49)(4k^2 + 49k - 9)$$

$$355) (35p - 5)(21p^2 + 18p - 22)$$

$$356) (48x - 17)(37x^2 + 30x + 23)$$

$$357) (35n + 27)(2n^2 + 43n + 11)$$

$$358) (23m + 14)(45m^2 + 12m - 1)$$

$$359) (35p - 43)(10p^2 + 24p - 14)$$

$$360) (22x + 45)(26x^2 + 37x - 26)$$

$$361) (10n - 12)(42n^2 + 49n - 38)$$

$$362) (22b - 24)(34b^2 + 18b + 50)$$

$$363) (10r + 20)(50r^2 + 30r + 38)$$

$$364) (9n - 50)(7n^2 + 12n - 30)$$

$$365) (48x + 7)(15x^2 + 43x - 18)$$

$$366) (48a - 6)(23a^2 + 24a - 43)$$

$$367) (35v - 19)(39v^2 + 37v + 46)$$

$$368) (48x + 26)(5x^2 + 5x + 34)$$

$$369) (35x + 13)(47x^2 + 18x + 22)$$

$$370) (22n - 44)(12n^2 + 30n + 9)$$

$$371) (35k + 44)(29k^2 - k - 3)$$

$$372) (10x - 26)(36x^2 + 24x + 29)$$

$$373) (22n + 19)(2n^2 - 7n + 17)$$

$$374) (22p - 13)(45p^2 + 12p - 15)$$

$$375) (9m + 6)(18m^2 + 5m + 5)$$

$$376) (48r + 50)(34r^2 + 18r - 7)$$

$$377) (9x - 7)(25x^2 + 30x - 20)$$

$$378) (48n - 20)(42n^2 - n - 32)$$

$$379) (35b + 24)(7b^2 + 12b - 44)$$

$$380) (35x - 45)(15x^2 - 7x - 12)$$

$$381) (47v + 12)(49v^2 + 24v + 45)$$

$$382) (22n + 43)(31n^2 + 5n - 24)$$

$$383) (35a - 14)(47a^2 + 18a - 36)$$

$$384) (22k - 27)(39k^2 - 14k - 48)$$

$$385) (9p + 17)(4p^2 - p + 40)$$

$$386) (22x + 5)(20x^2 + 12x + 28)$$

$$387) (9n + 49)(37n^2 - 20n + 16)$$

$$388) (48m - 8)(28m^2 - 7m + 3)$$

$$389) (9r - 21)(44r^2 + 5r + 48)$$

$$390) (48x + 23)(10x^2 - 26x + 36)$$

$$391) (35n + 11)(26n^2 - 14n + 24)$$

$$392) (47b - 46)(17b^2 - b + 11)$$

$$393) (35r + 42)(33r^2 - 32r - 1)$$

$$394) (22x - 15)(50x^2 - 20x - 13)$$

$$395) (35n - 28)(41n^2 - 7n - 25)$$

$$396) (22a + 16)(6a^2 + 5a - 38)$$

$$397) (9v + 4)(23v^2 - 26v - 50)$$

$$398) (22x + 48)(39x^2 - 14x - 5)$$

$$399) (9x - 9)(30x^2 - x - 18)$$

$$400) (48n - 22)(47n^2 - 32n - 30)$$

$$401) (48k - 13)(90k^2 - 81k + 83)$$

$$402) (46p - 38)(71p^2 - 17p - 10)$$

$$403) (89x - 67)(97x^2 + 41x + 97)$$

$$404) (30n - 92)(78n^2 - 96n + 4)$$

$$405) (29m + 79)(59m^2 - 32m - 89)$$

$$406) (71r + 54)(41r^2 + 26r + 14)$$

$$407) (12x + 24)(66x^2 + 90x - 80)$$

$$408) (11n - 1)(47n^2 - 48n + 28)$$

$$409) (53b - 30)(29b^2 + 11b - 65)$$

$$410) (96v - 60)(10v^2 + 74v + 42)$$

$$411) (35n + 86)(16n^2 - 4n + 57)$$

$$412) (94x - 85)(35x^2 - 63x - 51)$$

$$413) (78a + 61)(99a^2 + 59a - 36)$$

$$414) (76k + 31)(23k^2 - 78k + 66)$$

$$415) (18p + 7)(4p^2 - 15p - 27)$$

$$416) (60x - 23)(87x^2 + 44x + 81)$$

$$417) (58n - 48)(68n^2 - 94n - 12)$$

$$418) (64m - 65)(24m^2 + 95m + 39)$$

$$419) (41x + 68)(56x^2 + 92x - 91)$$

$$420) (42r + 98)(75r^2 + 29r + 2)$$

$$421) (83n + 44)(37n^2 - 45n + 17)$$

$$422) (25b + 14)(63b^2 + 13b - 77)$$

$$423) (65x - 41)(25x^2 - 61x - 67)$$

$$424) (7n - 71)(7n^2 - 2n + 40)$$

$$425) (23r - 16)(44r^2 + 77r + 26)$$

$$426) (5a - 95)(32a^2 + 62a - 53)$$

$$427) (48v + 76)(13v^2 - 76v + 55)$$

$$428) (88x + 21)(20x^2 + 46x + 69)$$

$$429) (30n - 4)(n^2 - 91n - 24)$$

$$430) (90x + 51)(95x^2 - 17x - 38)$$

$$431) (72k - 34)(83k^2 - 28k + 79)$$

$$432) (54n + 83)(71n^2 - 43n - 14)$$

$$433) (12x - 88)(90x^2 + 95x + 93)$$

$$434) (71p - 58)(65p^2 + 31p - 14)$$

$$435) (53m + 58)(53m^2 + 16m - 93)$$

$$436) (95r + 28)(34r^2 + 79r + 14)$$

$$437) (35n - 26)(41n^2 + 29n - 27)$$

$$438) (37x + 3)(59x^2 - 58x - 79)$$

$$439) (77b - 51)(22b^2 + 64b - 69)$$

$$440) (19v - 81)(3v^2 - 73v + 38)$$

$$441) (17x + 95)(29x^2 - 15x - 55)$$

$$442) (60n + 65)(10n^2 + 49n + 53)$$

$$443) (a + 40)(92a^2 - 89a - 40)$$

$$444) (42p - 19)(99p^2 + 33p - 26)$$

$$445) (100k + 11)(16k^2 - 30k + 67)$$

$$446) (84x - 44)(80x^2 + 97x + 82)$$

$$447) (83n - 74)(61n^2 - 45n - 12)$$

$$448) (24m - 99)(87m^2 + 18m + 91)$$

$$449) (66r + 72)(68r^2 + 82r - 2)$$

$$450) (65x + 48)(49x^2 - 56x - 95)$$

$$451) (6n + 18)(31n^2 + 3n + 12)$$

$$452) (47v - 37)(37v^2 - 71v + 27)$$

$$453) (90x - 62)(19x^2 - 12x - 66)$$

$$454) (49b - 7)(56b^2 + 67b - 81)$$

$$455) (31n - 92)(62n^2 + 41n + 12)$$

$$456) (29a + 80)(25a^2 - 86a - 57)$$

$$457) (72v + 55)(7v^2 - 28v + 51)$$

$$458) (13x + 25)(89x^2 + 36x - 42)$$

$$459) (12x + 74)(69x^2 + 65x + 69)$$

$$460) (54n - 30)(96n^2 - 43n - 28)$$

$$461) (96k - 54)(77k^2 + 21k + 80)$$

$$462) (38p - 84)(58p^2 + 84p - 14)$$

$$463) (36x + 92)(83x^2 - 58x + 94)$$

$$464) (79n + 62)(65n^2 + 5n - 4)$$

$$465) (20m + 37)(46m^2 + 69m - 97)$$

$$466) (18r + 7)(27r^2 - 73r + 10)$$

$$467) (61x - 22)(53x^2 - 10x - 83)$$

$$468) (2n - 47)(34n^2 + 54n + 25)$$

$$469) (b - 77)(15b^2 - 84b - 68)$$

$$470) (43v + 99)(98v^2 - 25v + 39)$$

$$471) (85x + 69)(22x^2 + 38x - 54)$$

$$472) (84n + 44)(3n^2 - 99n + 54)$$

$$473) (25a + 15)(86a^2 - 40a - 45)$$

$$474) (68k - 10)(67k^2 + 23k + 63)$$

$$475) (66p - 40)(92p^2 + 87p - 30)$$

$$476) (7x - 65)(74x^2 - 56x + 78)$$

$$477) (50n - 95)(55n^2 + 8n - 16)$$

$$478) (48m + 76)(80m^2 + 71m + 92)$$

$$479) (91r + 52)(61r^2 - 71r - 1)$$

$$480) (32x + 22)(43x^2 - 7x - 94)$$

$$481) (73b - 33)(49b^2 - 86b - 85)$$

$$482) (31n - 3)(24n^2 + 56n + 8)$$

$$483) (14v - 58)(31v^2 - 23v + 23)$$

$$484) (13x - 88)(12x^2 + 41x - 70)$$

$$485) (55n + 89)(94n^2 - 97n + 37)$$

$$486) (98a + 59)(19a^2 - 38a - 56)$$

$$487) (96v + 34)(25v^2 + 52v - 100)$$

$$488) (37x + 4)(82x^2 + 89x - 42)$$

$$489) (80x - 26)(64x^2 - 53x + 61)$$

$$490) (78n - 51)(89n^2 + 10n - 32)$$

$$491) (20k - 80)(70k^2 + 74k + 76)$$

$$492) (62p + 96)(52p^2 - 69p - 18)$$

$$493) (60x + 66)(77x^2 - 5x + 90)$$

$$494) (2n + 41)(58n^2 + 59n - 3)$$

$$495) (44m + 11)(39m^2 - 84m - 96)$$

$$496) (43r - 13)(21r^2 - 20r + 11)$$

$$497) (26n - 68)(27n^2 - 99n + 21)$$

$$498) (85x - 43)(46x^2 + 43x - 82)$$

$$499) (25b - 98)(9b^2 - 35b - 73)$$

$$500) (67v + 73)(91v^2 + 28v + 35)$$

$$501) \ (9x + 48)(15x^2 + 87x - 58)$$

$$502) \ (7n + 19)(98n^2 - 51n + 50)$$

$$503) \ (49a - 6)(79a^2 + 13a - 44)$$

$$504) \ (90p - 61)(86p^2 - 66p - 29)$$

$$505) \ (32x - 91)(67x^2 - 2x + 74)$$

$$506) \ (92k - 36)(60k^2 + 76k + 64)$$

$$507) \ (74n + 85)(48n^2 + 61n - 20)$$

$$508) \ (72m + 56)(74m^2 - 81m + 88)$$

$$509) \ (14r + 31)(55r^2 - 18r - 5)$$

$$510) \ (56x + 1)(36x^2 + 46x - 99)$$

$$511) \ (97b - 54)(43b^2 - 33b - 84)$$

$$512) \ (39v - 84)(24v^2 + 31v + 24)$$

$$513) \ (55n - 29)(18n^2 - 97n + 9)$$

$$514) \ (37x + 93)(5x^2 + 89x - 75)$$

$$515) \ (21a + 38)(12a^2 + 15a - 60)$$

$$516) \ (79n + 63)(88n^2 - 48n + 33)$$

$$517) \ (19k + 8)(94k^2 + 74k + 48)$$

$$518) \ (3x - 47)(57x^2 + 62x - 12)$$

$$519) \ (62x - 17)(76x^2 - 64x - 46)$$

$$520) \ (n - 71)(82n^2 + 59n - 31)$$

$$521) \ (44k + 100)(64k^2 - 79k + 77)$$

$$522) \ (86p + 70)(45p^2 - 15p - 17)$$

$$523) \ (85x + 45)(70x^2 + 48x + 86)$$

$$524) \ (26n + 15)(52n^2 - 94n - 7)$$

$$525) \ (68m - 10)(33m^2 - 31m + 100)$$

$$526) \ (10r - 39)(14r^2 + 33r + 7)$$

$$527) \ (8x - 64)(40x^2 + 92x - 86)$$

$$528) \ (93b + 82)(2b^2 + 18b - 72)$$

$$529) (91v + 52)(84v^2 + 76v + 36)$$

$$530) (51n - 94)(21n^2 - 46n + 22)$$

$$531) (33x + 28)(9x^2 - 61x - 62)$$

$$532) (15k - 57)(54k^2 - 76k + 60)$$

$$533) (75x - 2)(91x^2 + 2x + 46)$$

$$534) (74a - 32)(72a^2 + 61a - 48)$$

$$535) (57p - 87)(79p^2 - 13p - 33)$$

$$536) (56x + 89)(60x^2 + 46x + 74)$$

$$537) (40m + 35)(23m^2 - 28m + 89)$$

$$538) (98n + 60)(42n^2 - 92n - 19)$$

$$539) (38r + 5)(48r^2 + 35r - 4)$$

$$540) (20b - 75)(36b^2 + 20b - 88)$$

$$541) (80x - 20)(30x^2 + 94x + 98)$$

$$542) (22n - 50)(11n^2 - 43n + 5)$$

$$543) (63v + 97)(18v^2 + 79v + 20)$$

$$544) (4x + 67)(100x^2 - 59x - 74)$$

$$545) (3n + 42)(81n^2 + 5n + 34)$$

$$546) (45a + 12)(5a^2 + 64a - 59)$$

$$547) (87k - 13)(88k^2 - 74k + 48)$$

$$548) (86x - 43)(69x^2 - 10x - 50)$$

$$549) (27x - 67)(50x^2 + 48x + 58)$$

$$550) (70n - 97)(76n^2 - 89n - 35)$$

$$551) (68k + 79)(57k^2 - 26k + 72)$$

$$552) (9p + 49)(38p^2 + 33p - 21)$$

$$553) (52x + 24)(20x^2 + 97x + 87)$$

$$554) (50n - 6)(45n^2 - 41n - 6)$$

$$555) (93m - 35)(26m^2 + 18m - 100)$$

$$556) (34r - 60)(8r^2 + 81r + 3)$$

$$557) (32x - 90)(33x^2 - 56x - 90)$$

$$558) (75n + 86)(14n^2 + 7n + 18)$$

$$559) (16b + 56)(97b^2 + 66b - 76)$$

$$560) (15v + 31)(78v^2 - 71v + 32)$$

$$561) (57x + 2)(2x^2 - 8x - 61)$$

$$562) (99x - 23)(85x^2 + 51x + 46)$$

$$563) (98a - 53)(66a^2 - 87a - 47)$$

$$564) (39k - 78)(47k^2 - 23k + 61)$$

$$565) (82p + 93)(72p^2 + 35p - 37)$$

$$566) (80x + 64)(54x^2 + 99x + 70)$$

$$567) (21n + 39)(35n^2 - 38n - 23)$$

$$568) (64m + 9)(16m^2 + 20m + 85)$$

$$569) (62r - 16)(42r^2 + 84r - 8)$$

$$570) (4x - 46)(23x^2 - 54x + 99)$$

$$571) (46n - 71)(4n^2 + 5n + 6)$$

$$572) (44b - 100)(30b^2 + 68b - 87)$$

$$573) (87v + 76)(11v^2 - 69v + 15)$$

$$574) (28x + 46)(93x^2 - 10x - 78)$$

$$575) (27n + 21)(75n^2 + 53n + 30)$$

$$576) (69a - 9)(100a^2 - 84a - 63)$$

$$577) (11k - 39)(81k^2 - 21k + 44)$$

$$578) (9x - 63)(63x^2 + 38x - 49)$$

$$579) (51x - 93)(44x^2 - 100x + 59)$$

$$580) (92m + 53)(50m^2 + 23m + 68)$$

$$581) (94n + 83)(69n^2 - 36n - 34)$$

$$582) (34p + 28)(32p^2 + 86p - 25)$$

$$583) (76x - 2)(13x^2 - 51x + 83)$$

$$584) (74n - 26)(38n^2 + 7n - 11)$$

$$585) (16m - 56)(20m^2 + 71m + 97)$$

$$586) (58r - 81)(r^2 - 67r + 4)$$

$$587) (99n + 60)(8n^2 + 56n + 18)$$

$$588) (9x - 14)(76x^2 - 89x - 53)$$

$$589) (40b + 35)(90b^2 - 82b - 75)$$

$$590) (83v + 6)(71v^2 - 23v + 28)$$

$$591) (81x - 19)(97x^2 + 40x - 65)$$

$$592) (23x - 49)(78x^2 - 97x + 42)$$

$$593) (65a - 74)(59a^2 - 33a - 51)$$

$$594) (63k + 97)(41k^2 + 25k + 57)$$

$$595) (5p + 72)(66p^2 + 89p - 36)$$

$$596) (46n + 18)(28n^2 + 10n - 22)$$

$$597) (47x + 43)(47x^2 - 49x + 71)$$

$$598) (88m - 12)(10m^2 + 73m + 81)$$

$$599) (29r - 42)(35r^2 - 64r - 13)$$

$$600) (28x - 67)(16x^2 - 5x + 95)$$

Multiplying polynomials - Integers - Simplify product of binomials and trinomials

Simplify integer product with one variable:

1) $(6n + 5)(5n^2 + n - 6)$

$30n^3 + 31n^2 - 31n - 30$

2) $(m - 3)(2m^2 + 6m + 3)$

$2m^3 - 15m - 9$

3) $(3r + 2)(8r^2 - r + 4)$

$24r^3 + 13r^2 + 10r + 8$

4) $(6x - 1)(6x^2 + 5x - 1)$

$36x^3 + 24x^2 - 11x + 1$

5) $(2b + 1)(3b^2 + 4b + 7)$

$6b^3 + 11b^2 + 18b + 7$

6) $(n - 6)(6n^2 + 7n + 7)$

$6n^3 - 29n^2 - 35n - 42$

7) $(5v + 7)(v^2 + 6v + 1)$

$5v^3 + 37v^2 + 47v + 7$

8) $(2n - 8)(6n^2 - n + 6)$

$12n^3 - 50n^2 + 20n - 48$

9) $(8x + 4)(8x^2 - 5x + 6)$

$64x^3 - 8x^2 + 28x + 24$

10) $(4a + 6)(4a^2 - 5a + 6)$

$16a^3 + 4a^2 - 6a + 36$

11) $(p + 7)(7p^2 + 5p + 8)$

$7p^3 + 54p^2 + 43p + 56$

12) $(7k - 6)(3k^2 + 7k + 5)$

$21k^3 + 31k^2 - 7k - 30$

13) $(3x - 3)(7x^2 + 6x + 5)$

$21x^3 - 3x^2 - 3x - 15$

14) $(7n + 2)(6n^2 + 2n - 5)$

$42n^3 + 26n^2 - 31n - 10$

15) $(7m - 3)(7m^2 - 4m - 8)$

$49m^3 - 49m^2 - 44m + 24$

16) $(3r + 4)(r^2 + r - 5)$

$3r^3 + 7r^2 - 11r - 20$

17) $(6x + 1)(2x^2 - 5x - 1)$

$12x^3 - 28x^2 - 11x - 1$

18) $(8n + 7)(7n^2 - 8n - 6)$

$56n^3 - 15n^2 - 104n - 42$

19) $(2b + 4)(4b^2 - 4b - 6)$

$8b^3 + 8b^2 - 28b - 24$

20) $(5v - 8)(2v^2 + 8v - 6)$

$10v^3 + 24v^2 - 94v + 48$

21) $(8x + 6)(x^2 + 4x - 6)$

$8x^3 + 38x^2 - 24x - 36$

22) $(n - 6)(8n^2 + 8n + 1)$

$8n^3 - 40n^2 - 47n - 6$

23) $(3a - 1)(5a^2 + 3a + 1)$

$15a^3 + 4a^2 - 1$

24) $(7v - 3)(4v^2 - v + 1)$

$28v^3 - 19v^2 + 10v - 3$

$$25) (5x + 8)(8x^2 + x + 2)$$

$$40x^3 + 69x^2 + 18x + 16$$

$$27) (8k + 1)(5k^2 - 3k - 3)$$

$$40k^3 - 19k^2 - 27k - 3$$

$$29) (6n + 4)(7n^2 - 7n + 4)$$

$$42n^3 - 14n^2 - 4n + 16$$

$$31) (m + 6)(6m^2 + 4m + 7)$$

$$6m^3 + 40m^2 + 31m + 42$$

$$33) (4r - 6)(5r^2 + 6r + 4)$$

$$20r^3 - 6r^2 - 20r - 24$$

$$35) (4b + 2)(7b^2 - 5b + 6)$$

$$28b^3 - 6b^2 + 14b + 12$$

$$37) (6v - 1)(6v^2 + 7v + 5)$$

$$36v^3 + 36v^2 + 23v - 5$$

$$39) (3n + 1)(n^2 + 6n - 4)$$

$$3n^3 + 19n^2 - 6n - 4$$

$$41) (8k + 3)(7k^2 + 5k - 5)$$

$$56k^3 + 61k^2 - 25k - 15$$

$$43) (5x + 6)(3x^2 - 3x - 5)$$

$$15x^3 + 3x^2 - 43x - 30$$

$$45) (m - 1)(7m^2 - 4m - 6)$$

$$7m^3 - 11m^2 - 2m + 6$$

$$47) (6x + 2)(4x^2 - 5x + 2)$$

$$24x^3 - 22x^2 + 2x + 4$$

$$49) (3b + 4)(3b^2 + b + 1)$$

$$9b^3 + 15b^2 + 7b + 4$$

$$51) (6x + 2)(5x^2 - 5x - 5)$$

$$30x^3 - 20x^2 - 40x - 10$$

$$26) (3x - 1)(x^2 + 3x - 1)$$

$$3x^3 + 8x^2 - 6x + 1$$

$$28) (2p + 6)(3p^2 - 7p - 1)$$

$$6p^3 + 4p^2 - 44p - 6$$

$$30) (5x + 4)(x^2 + 5x + 7)$$

$$5x^3 + 29x^2 + 55x + 28$$

$$32) (8n - 8)(8n^2 - 8n + 7)$$

$$64n^3 - 128n^2 + 120n - 56$$

$$34) (7x - 1)(2x^2 + 3x + 6)$$

$$14x^3 + 19x^2 + 39x - 6$$

$$36) (n - 6)(n^2 + 7n - 5)$$

$$n^3 + n^2 - 47n + 30$$

$$38) (8x + 4)(3x^2 - 6x + 5)$$

$$24x^3 - 36x^2 + 16x + 20$$

$$40) (5a + 6)(4a^2 - 5a + 5)$$

$$20a^3 - a^2 - 5a + 30$$

$$42) (2p - 8)(4p^2 + p - 5)$$

$$8p^3 - 30p^2 - 18p + 40$$

$$44) (7n - 6)(n^2 - 6n - 6)$$

$$7n^3 - 48n^2 - 6n + 36$$

$$46) (4r - 4)(6r^2 + 8r - 6)$$

$$24r^3 + 8r^2 - 56r + 24$$

$$48) (n - 1)(2n^2 + 7n + 1)$$

$$2n^3 + 5n^2 - 6n - 1$$

$$50) (5v + 1)(7v^2 + 7v + 1)$$

$$35v^3 + 42v^2 + 12v + 1$$

$$52) (2n + 3)(4n^2 - 2n - 4)$$

$$8n^3 + 8n^2 - 14n - 12$$

$$53) (5a - 8)(a^2 + a - 2)$$

$$5a^3 - 3a^2 - 18a + 16$$

$$55) (x - 6)(6x^2 - 8x - 1)$$

$$6x^3 - 44x^2 + 47x + 6$$

$$57) (7n - 4)(2n^2 - 8n + 7)$$

$$14n^3 - 64n^2 + 81n - 28$$

$$59) (6x + 4)(5x^2 + 3x + 6)$$

$$30x^3 + 38x^2 + 48x + 24$$

$$61) (3n + 5)(5n^2 + 6n + 5)$$

$$15n^3 + 43n^2 + 45n + 25$$

$$63) (6r + 3)(7r^2 + 5r + 3)$$

$$42r^3 + 51r^2 + 33r + 9$$

$$65) (n + 6)(5n^2 + 6n - 4)$$

$$5n^3 + 36n^2 + 32n - 24$$

$$67) (7v - 1)(v^2 + 5v - 5)$$

$$7v^3 + 34v^2 - 40v + 5$$

$$69) (4n + 1)(6n^2 + 5n - 5)$$

$$24n^3 + 26n^2 - 15n - 5$$

$$71) (k - 1)(5k^2 - 6k + 6)$$

$$5k^3 - 11k^2 + 12k - 6$$

$$73) (6x + 6)(7x^2 - 5x + 2)$$

$$42x^3 + 12x^2 - 18x + 12$$

$$75) (3m + 8)(4m^2 + 3m + 1)$$

$$12m^3 + 41m^2 + 27m + 8$$

$$77) (7x - 6)(8x^2 + 2x - 2)$$

$$56x^3 - 34x^2 - 26x + 12$$

$$79) (4b - 4)(4b^2 + b + 1)$$

$$16b^3 - 12b^2 - 4$$

$$54) (8v + 6)(8v^2 - 3v - 1)$$

$$64v^3 + 24v^2 - 26v - 6$$

$$56) (4x - 1)(5x^2 + 5x + 7)$$

$$20x^3 + 15x^2 + 23x - 7$$

$$58) (k + 1)(2k^2 + 7k + 5)$$

$$2k^3 + 9k^2 + 12k + 5$$

$$60) (3p - 1)(8p^2 + 6p + 6)$$

$$24p^3 + 10p^2 + 12p - 6$$

$$62) (2m + 6)(2m^2 - 6m + 5)$$

$$4m^3 - 26m + 30$$

$$64) (8x + 8)(6x^2 - 6x - 4)$$

$$48x^3 - 80x - 32$$

$$66) (5b - 6)(3b^2 - 7b - 5)$$

$$15b^3 - 53b^2 + 17b + 30$$

$$68) (x - 4)(8x^2 + x - 5)$$

$$8x^3 - 31x^2 - 9x + 20$$

$$70) (6a - 2)(4a^2 - 6a - 4)$$

$$24a^3 - 44a^2 - 12a + 8$$

$$72) (3p + 1)(5p^2 + 2p + 7)$$

$$15p^3 + 11p^2 + 23p + 7$$

$$74) (8n + 3)(5n^2 + 7n + 1)$$

$$40n^3 + 71n^2 + 29n + 3$$

$$76) (5r + 6)(r^2 + 7r + 1)$$

$$5r^3 + 41r^2 + 47r + 6$$

$$78) (2n - 1)(7n^2 - 2n - 1)$$

$$14n^3 - 11n^2 + 1$$

$$80) (7v + 1)(2v^2 - 3v + 2)$$

$$14v^3 - 19v^2 + 11v + 2$$

$$81) (x - 2)(x^2 - 8x + 7)$$

$$x^3 - 10x^2 + 23x - 14$$

$$82) (3n + 4)(8n^2 - 4n + 7)$$

$$24n^3 + 20n^2 + 5n + 28$$

$$83) (6k - 7)(7k^2 + 7k - 1)$$

$$42k^3 - 7k^2 - 55k + 7$$

$$84) (6a + 1)(5a^2 - 8a + 7)$$

$$30a^3 - 43a^2 + 34a + 7$$

$$85) (3x + 3)(2x^2 + 8x + 6)$$

$$6x^3 + 30x^2 + 42x + 18$$

$$86) (5x + 8)(2x^2 + 2x - 8)$$

$$10x^3 + 26x^2 - 24x - 64$$

$$87) (7n + 5)(6n^2 - n + 6)$$

$$42n^3 + 23n^2 + 37n + 30$$

$$88) (2k - 6)(5k^2 + 2k + 5)$$

$$10k^3 - 26k^2 - 2k - 30$$

$$89) (4p - 1)(3p^2 - 2p - 4)$$

$$12p^3 - 11p^2 - 14p + 4$$

$$90) (7x - 4)(x^2 - 6x - 4)$$

$$7x^3 - 46x^2 - 4x + 16$$

$$91) (n + 1)(8n^2 + 6n - 4)$$

$$8n^3 + 14n^2 + 2n - 4$$

$$92) (3m - 2)(6m^2 - 7m - 5)$$

$$18m^3 - 33m^2 - m + 10$$

$$93) (6r + 3)(4r^2 + 5r - 5)$$

$$24r^3 + 42r^2 - 15r - 15$$

$$94) (3x - 4)(7x^2 - 5x + 4)$$

$$21x^3 - 43x^2 + 32x - 16$$

$$95) (3n + 6)(8n^2 - 5n + 6)$$

$$24n^3 + 33n^2 - 12n + 36$$

$$96) (5b + 3)(7b^2 - 6b + 7)$$

$$35b^3 - 9b^2 + 17b + 21$$

$$97) (8v + 8)(6v^2 - 4v + 2)$$

$$48v^3 + 16v^2 - 16v + 16$$

$$98) (2x + 5)(3x^2 - x + 2)$$

$$6x^3 + 13x^2 - x + 10$$

$$99) (4x - 7)(x^2 - 5x + 2)$$

$$4x^3 - 27x^2 + 43x - 14$$

$$100) (8a + 8)(3a^2 + a - 4)$$

$$24a^3 + 32a^2 - 24a - 32$$

$$101) (3k - 9)(4k^2 - 8k - 1)$$

$$12k^3 - 60k^2 + 69k + 9$$

$$102) (3x + 1)(10x^2 - 4x + 2)$$

$$30x^3 - 2x^2 + 2x + 2$$

$$103) (4p + 6)(8p^2 - 10p + 7)$$

$$32p^3 + 8p^2 - 32p + 42$$

$$104) (9n + 2)(12n^2 + 4n - 10)$$

$$108n^3 + 60n^2 - 82n - 20$$

$$105) (11m + 11)(7m^2 + 7m + 6)$$

$$77m^3 + 154m^2 + 143m + 66$$

$$106) (11x - 3)(7x^2 - 9x + 2)$$

$$77x^3 - 120x^2 + 49x - 6$$

$$107) (8n - 7)(5n^2 + 8n - 7)$$

$$40n^3 + 29n^2 - 112n + 49$$

$$108) (6r + 10)(10r^2 - 10r - 10)$$

$$60r^3 + 40r^2 - 160r - 100$$

$$109) (10b + 7)(5b^2 - 3b - 5)$$

$$50b^3 + 5b^2 - 71b - 35$$

$$111) (8v + 3)(11v^2 + 12v - 3)$$

$$88v^3 + 129v^2 + 12v - 9$$

$$113) (2k - 1)(k^2 + 9k + 10)$$

$$2k^3 + 17k^2 + 11k - 10$$

$$115) (5x - 5)(6x^2 - x + 12)$$

$$30x^3 - 35x^2 + 65x - 60$$

$$117) (8n - 12)(3n^2 + 9n + 9)$$

$$24n^3 + 36n^2 - 36n - 108$$

$$119) (12p - 9)(10p^2 - 11p - 6)$$

$$120p^3 - 222p^2 + 27p + 54$$

$$121) (10x + 5)(2x^2 + 11x - 4)$$

$$20x^3 + 120x^2 + 15x - 20$$

$$123) (7r + 12)(5r^2 + 8r - 10)$$

$$35r^3 + 116r^2 + 26r - 120$$

$$125) (7n - 3)(5n^2 - 9n + 11)$$

$$35n^3 - 78n^2 + 104n - 33$$

$$127) (4b - 7)(11b^2 + 5b - 12)$$

$$44b^3 - 57b^2 - 83b + 84$$

$$129) (x - 7)(9x^2 + 6x - 7)$$

$$9x^3 - 57x^2 - 49x + 49$$

$$131) (4a - 11)(a^2 + 3a - 5)$$

$$4a^3 + a^2 - 53a + 55$$

$$133) (x - 12)(12x^2 + 3x + 7)$$

$$12x^3 - 141x^2 - 29x - 84$$

$$135) (9m + 6)(10m^2 + 7m + 11)$$

$$90m^3 + 123m^2 + 141m + 66$$

$$110) (5x - 7)(3x^2 + 9x - 2)$$

$$15x^3 + 24x^2 - 73x + 14$$

$$112) (8n - 11)(8n^2 - 2n - 11)$$

$$64n^3 - 104n^2 - 66n + 121$$

$$114) (5a + 10)(9a^2 - 12a + 2)$$

$$45a^3 + 30a^2 - 110a + 20$$

$$116) (2x + 9)(12x^2 - 11x - 11)$$

$$24x^3 + 86x^2 - 121x - 99$$

$$118) (2k - 5)(4k^2 - 8k - 4)$$

$$8k^3 - 36k^2 + 32k + 20$$

$$120) (12n + 1)(2n^2 - 2n + 8)$$

$$24n^3 - 22n^2 + 94n + 8$$

$$122) (10m - 10)(7m^2 - 10m + 6)$$

$$70m^3 - 170m^2 + 160m - 60$$

$$124) (9x + 8)(10x^2 + 10x + 3)$$

$$90x^3 + 170x^2 + 107x + 24$$

$$126) (7v + 7)(3v^2 + 2v - 10)$$

$$21v^3 + 35v^2 - 56v - 70$$

$$128) (4x + 3)(3x^2 - 9x - 8)$$

$$12x^3 - 27x^2 - 59x - 24$$

$$130) (k + 3)(6k^2 - 8k + 4)$$

$$6k^3 + 10k^2 - 20k + 12$$

$$132) (12p - 1)(7p^2 + 7p + 6)$$

$$84p^3 + 77p^2 + 65p - 6$$

$$134) (11n + 9)(4n^2 - 7n + 9)$$

$$44n^3 - 41n^2 + 36n + 81$$

$$136) (11r - 5)(10r^2 + 4r - 12)$$

$$110r^3 - 6r^2 - 152r + 60$$

$$137) (9x - 9)(2x^2 - 6x - 11)$$
$$18x^3 - 72x^2 - 45x + 99$$

$$138) (9b + 1)(8b^2 + 5b - 3)$$
$$72b^3 + 53b^2 - 22b - 3$$

$$139) (6n + 5)(7n^2 + 8n - 9)$$
$$42n^3 + 83n^2 - 14n - 45$$

$$140) (6v - 10)(7v^2 + v + 9)$$
$$42v^3 - 64v^2 + 44v - 90$$

$$141) (3x + 12)(5x^2 + 9x + 3)$$
$$15x^3 + 87x^2 + 117x + 36$$

$$142) (6n + 1)(11n^2 + 5n + 5)$$
$$66n^3 + 41n^2 + 35n + 5$$

$$143) (3a - 3)(11a^2 - 5a + 7)$$
$$33a^3 - 48a^2 + 36a - 21$$

$$144) (k + 11)(3k^2 + 10k + 8)$$
$$3k^3 + 43k^2 + 118k + 88$$

$$145) (3x + 7)(9x^2 - x + 10)$$
$$27x^3 + 60x^2 + 23x + 70$$

$$146) (8x + 3)(12x^2 + 12x - 9)$$
$$96x^3 + 132x^2 - 36x - 27$$

$$147) (11n - 7)(n^2 + 10n - 4)$$
$$11n^3 + 103n^2 - 114n + 28$$

$$148) (8m - 11)(7m^2 - 3m - 9)$$
$$56m^3 - 101m^2 - 39m + 99$$

$$149) (11p + 3)(12p^2 - 4p - 1)$$
$$132p^3 - 8p^2 - 23p - 3$$

$$150) (8x - 1)(4x^2 + 11x + 1)$$
$$32x^3 + 84x^2 - 3x - 1$$

$$151) (5n - 12)(5n^2 + n + 2)$$
$$25n^3 - 55n^2 - 2n - 24$$

$$152) (8m + 10)(10m^2 - 3m + 4)$$
$$80m^3 + 76m^2 + 2m + 40$$

$$153) (5r - 1)(2r^2 + 12r + 6)$$
$$10r^3 + 58r^2 + 18r - 6$$

$$154) (3x - 5)(8x^2 + x + 8)$$
$$24x^3 - 37x^2 + 19x - 40$$

$$155) (5n + 9)(8n^2 - 2n + 9)$$
$$40n^3 + 62n^2 + 27n + 81$$

$$156) (2b + 5)(4b^2 - 7b - 3)$$
$$8b^3 + 6b^2 - 41b - 15$$

$$157) (9v + 5)(10v^2 - 5v + 10)$$
$$90v^3 + 5v^2 + 65v + 50$$

$$158) (2x - 9)(6x^2 - x - 3)$$
$$12x^3 - 56x^2 + 3x + 27$$

$$159) (6x - 11)(6x^2 + 10x - 8)$$
$$36x^3 - 6x^2 - 158x + 88$$

$$160) (10a + 1)(3a^2 + 3a - 3)$$
$$30a^3 + 33a^2 - 27a - 3$$

$$161) (12k - 3)(9k^2 - k + 2)$$
$$108k^3 - 39k^2 + 27k - 6$$

$$162) (10p + 11)(9p^2 - 11p + 3)$$
$$90p^3 - 11p^2 - 91p + 33$$

$$163) (7x + 7)(x^2 + 4x + 5)$$
$$7x^3 + 35x^2 + 63x + 35$$

$$164) (10n - 3)(7n^2 - 7n - 11)$$
$$70n^3 - 91n^2 - 89n + 33$$

$$165) (7m - 7)(12m^2 - 10m - 9)$$
$$84m^3 - 154m^2 + 7m + 63$$

$$166) (4r + 7)(12r^2 + 4r - 8)$$
$$48r^3 + 100r^2 - 4r - 56$$

$$167) (7x + 3)(5x^2 - 6x - 6)$$
$$35x^3 - 27x^2 - 60x - 18$$

$$168) (4n - 1)(10n^2 - 10n - 4)$$
$$40n^3 - 50n^2 - 6n + 4$$

$$169) (2b - 12)(2b^2 + 5b - 2)$$
$$4b^3 - 14b^2 - 64b + 24$$

$$170) (4v + 10)(3v^2 - 5v - 1)$$
$$12v^3 + 10v^2 - 54v - 10$$

$$171) (2x - 1)(8x^2 - 9x + 1)$$
$$16x^3 - 26x^2 + 11x - 1$$

$$172) (12n - 5)(2n^2 + 10n + 3)$$
$$24n^3 + 110n^2 - 14n - 15$$

$$173) (12k + 5)(6k^2 - 8k - 12)$$
$$72k^3 - 66k^2 - 184k - 60$$

$$174) (9x - 6)(11x^2 + 6x - 10)$$
$$99x^3 - 12x^2 - 126x + 60$$

$$175) (a + 9)(7a^2 + 12a - 9)$$
$$7a^3 + 75a^2 + 99a - 81$$

$$176) (12x - 9)(3x^2 - 4x - 8)$$
$$36x^3 - 75x^2 - 60x + 72$$

$$177) (9n + 5)(4n^2 - 7n - 7)$$
$$36n^3 - 43n^2 - 98n - 35$$

$$178) (6m + 1)(9m^2 + 7m - 5)$$
$$54m^3 + 51m^2 - 23m - 5$$

$$179) (9p - 3)(p^2 - 3p - 3)$$
$$9p^3 - 30p^2 - 18p + 9$$

$$180) (6x + 11)(7x^2 + 11x - 1)$$
$$42x^3 + 143x^2 + 115x - 11$$

$$181) (4n + 8)(7n^2 + 8n + 7)$$
$$28n^3 + 88n^2 + 92n + 56$$

$$182) (6m - 3)(12m^2 - 3m + 9)$$
$$72m^3 - 54m^2 + 63m - 27$$

$$183) (3r - 7)(5r^2 + 12r + 11)$$
$$15r^3 + r^2 - 51r - 77$$

$$184) (x + 7)(10x^2 + 9x - 12)$$
$$10x^3 + 79x^2 + 51x - 84$$

$$185) (3n + 3)(10n^2 - 2n - 11)$$
$$30n^3 + 24n^2 - 39n - 33$$

$$186) (b - 8)(3b^2 - 12b - 9)$$
$$3b^3 - 36b^2 + 87b + 72$$

$$187) (11v - 11)(8v^2 + 9v - 7)$$
$$88v^3 + 11v^2 - 176v + 77$$

$$188) (x - 3)(12x^2 - 6x - 8)$$
$$12x^3 - 42x^2 + 10x + 24$$

$$189) (11x - 1)(4x^2 + 3x + 4)$$
$$44x^3 + 29x^2 + 41x - 4$$

$$190) (8a - 5)(6a^2 + 10a + 5)$$
$$48a^3 + 50a^2 - 10a - 25$$

$$191) (11k + 9)(11k^2 + 7k + 4)$$
$$121k^3 + 176k^2 + 107k + 36$$

$$192) (8p + 5)(11p^2 - 11p + 8)$$
$$88p^3 - 33p^2 + 9p + 40$$

$$193) (5x - 5)(4x^2 + 11x + 10)$$
$$20x^3 + 35x^2 - 5x - 50$$

$$194) (8n - 9)(9n^2 + 12n - 9)$$
$$72n^3 + 15n^2 - 180n + 81$$

$$195) (5m + 5)(m^2 - 10m - 11)$$
$$5m^3 - 45m^2 - 105m - 55$$

$$196) (3r + 1)(2r^2 + 11r - 10)$$
$$6r^3 + 35r^2 - 19r - 10$$

$$197) (5x - 10)(7x^2 + x - 1)$$
$$35x^3 - 65x^2 - 15x + 10$$

$$198) (2n + 11)(12n^2 - 9n + 1)$$
$$24n^3 + 114n^2 - 97n + 11$$

$$199) (3b + 7)(10b^2 + 2b + 11)$$
$$30b^3 + 76b^2 + 47b + 77$$

$$200) (2v - 3)(5v^2 + 2v + 4)$$
$$10v^3 - 11v^2 + 2v - 12$$

$$201) (7n - 20)(17n^2 - 16n + 1)$$
$$119n^3 - 452n^2 + 327n - 20$$

$$202) (11x - 8)(6x^2 + x + 10)$$
$$66x^3 - 37x^2 + 102x - 80$$

$$203) (17a + 14)(5a^2 - 9a + 18)$$
$$85a^3 - 83a^2 + 180a + 252$$

$$204) (13k - 12)(3k^2 - 19k - 18)$$
$$39k^3 - 283k^2 - 6k + 216$$

$$205) (9x + 9)(14x^2 + 5x + 14)$$
$$126x^3 + 171x^2 + 171x + 126$$

$$206) (19x - 3)(3x^2 + 19x - 4)$$
$$57x^3 + 352x^2 - 133x + 12$$

$$207) (15n + 17)(12n^2 - 14n - 5)$$
$$180n^3 - 6n^2 - 313n - 85$$

$$208) (12m + 5)(10m^2 - 16m + 18)$$
$$120m^3 - 142m^2 + 136m + 90$$

$$209) (17x + 13)(10x^2 - 18x - 15)$$
$$170x^3 - 176x^2 - 489x - 195$$

$$210) (14n - 7)(7n^2 + 5n - 10)$$
$$98n^3 + 21n^2 - 175n + 70$$

$$211) (3p - 12)(11p^2 + 9p - 12)$$
$$33p^3 - 105p^2 - 144p + 144$$

$$212) (20r + 1)(7r^2 + 2r + 13)$$
$$140r^3 + 47r^2 + 262r + 13$$

$$213) (16x - 20)(17x^2 - 15x - 6)$$
$$272x^3 - 580x^2 + 204x + 120$$

$$214) (10b + 13)(18b^2 + 20b - 19)$$
$$180b^3 + 434b^2 + 70b - 247$$

$$215) (12n + 9)(15n^2 - n - 15)$$
$$180n^3 + 123n^2 - 189n - 135$$

$$216) (b - 11)(4b^2 - 18b + 17)$$
$$4b^3 - 62b^2 + 215b - 187$$

$$217) (18v + 18)(14v^2 + 6v + 8)$$
$$252v^3 + 360v^2 + 252v + 144$$

$$218) (15x - 3)(4x^2 - 12x - 2)$$
$$60x^3 - 192x^2 + 6x + 6$$

$$219) (3x - 15)(x^2 + 3x - 11)$$
$$3x^3 - 6x^2 - 78x + 165$$

$$220) (20a + 5)(11a^2 - 15a - 20)$$
$$220a^3 - 245a^2 - 475a - 100$$

$$221) (17k - 7)(k^2 + 9k + 12)$$

$$17k^3 + 146k^2 + 141k - 84$$

$$223) (7m + 1)(8m^2 + 3m + 6)$$

$$56m^3 + 29m^2 + 45m + 6$$

$$225) (19n - 19)(18n^2 - 11n + 16)$$

$$342n^3 - 551n^2 + 513n - 304$$

$$227) (10x + 9)(14x^2 - 12x - 3)$$

$$140x^3 + 6x^2 - 138x - 27$$

$$229) (6b + 18)(15b^2 + 6b + 10)$$

$$90b^3 + 306b^2 + 168b + 180$$

$$231) (8n + 14)(12n^2 - 14n + 15)$$

$$96n^3 + 56n^2 - 76n + 210$$

$$233) (5a - 7)(a^2 + 10a + 5)$$

$$5a^3 + 43a^2 - 45a - 35$$

$$235) (7x - 19)(19x^2 - 11x + 18)$$

$$133x^3 - 438x^2 + 335x - 342$$

$$237) (11x + 2)(9x^2 + 7x - 13)$$

$$99x^3 + 95x^2 - 129x - 26$$

$$239) (9p + 18)(16p^2 + 10p - 18)$$

$$144p^3 + 378p^2 + 18p - 324$$

$$241) (15n - 14)(3n^2 + 7n + 4)$$

$$45n^3 + 63n^2 - 38n - 56$$

$$243) (5r + 6)(10r^2 - 14r + 4)$$

$$50r^3 - 10r^2 - 64r + 24$$

$$245) (14n - 7)(10n^2 + 11n + 8)$$

$$140n^3 + 84n^2 + 35n - 56$$

$$247) (16x - 10)(20x^2 - 10x + 12)$$

$$320x^3 - 360x^2 + 292x - 120$$

$$222) (5p + 14)(19p^2 - 18p - 7)$$

$$95p^3 + 176p^2 - 287p - 98$$

$$224) (2x - 7)(8x^2 + 6x - 16)$$

$$16x^3 - 44x^2 - 74x + 112$$

$$226) (4r - 11)(5r^2 - 14r - 3)$$

$$20r^3 - 111r^2 + 142r + 33$$

$$228) (10n - 2)(5n^2 - 17n + 20)$$

$$50n^3 - 180n^2 + 234n - 40$$

$$230) (2v + 6)(12v^2 - 11v + 1)$$

$$24v^3 + 50v^2 - 64v + 6$$

$$232) (12x - 15)(2x^2 + 4x - 17)$$

$$24x^3 + 18x^2 - 264x + 255$$

$$234) (14k + 14)(20k^2 - 8k - 4)$$

$$280k^3 + 168k^2 - 168k - 56$$

$$236) (16n + 10)(17n^2 + 13n + 9)$$

$$272n^3 + 378n^2 + 274n + 90$$

$$238) (13m - 11)(6m^2 - 13m - 10)$$

$$78m^3 - 235m^2 + 13m + 110$$

$$240) (19x - 2)(5x^2 - 7x + 13)$$

$$95x^3 - 143x^2 + 261x - 26$$

$$242) (11b + 6)(13b^2 - 10b - 5)$$

$$143b^3 - 32b^2 - 115b - 30$$

$$244) (17x + 14)(13x^2 - 13x + 17)$$

$$221x^3 - 39x^2 + 107x + 238$$

$$246) (2b - 18)(20b^2 - 7b - 1)$$

$$40b^3 - 374b^2 + 124b + 18$$

$$248) (19v + 2)(10v^2 + 8v - 19)$$

$$190v^3 + 172v^2 - 345v - 38$$

$$249) (4x + 10)(17x^2 + 14x + 3)$$

$$68x^3 + 226x^2 + 152x + 30$$

$$250) (a - 2)(7a^2 - 13a - 6)$$

$$7a^3 - 27a^2 + 20a + 12$$

$$251) (18k + 19)(17k^2 + 11k - 16)$$

$$306k^3 + 521k^2 - 79k - 304$$

$$252) (6p + 7)(14p^2 - 6p + 16)$$

$$84p^3 + 62p^2 + 54p + 112$$

$$253) (3x - 14)(4x^2 + 17x + 7)$$

$$12x^3 - 5x^2 - 217x - 98$$

$$254) (20n + 15)(14n^2 - 9n - 2)$$

$$280n^3 + 30n^2 - 175n - 30$$

$$255) (9m - 6)(3m^2 + 14m - 12)$$

$$27m^3 + 108m^2 - 192m + 72$$

$$256) (5r + 14)(r^2 - 3r + 11)$$

$$5r^3 - r^2 + 13r + 154$$

$$257) (x + 3)(11x^2 + 12x + 2)$$

$$11x^3 + 45x^2 + 38x + 6$$

$$258) (11n - 18)(3n^2 - 7n - 17)$$

$$33n^3 - 131n^2 - 61n + 306$$

$$259) (7b + 11)(10b^2 + 18b - 17)$$

$$70b^3 + 236b^2 + 79b - 187$$

$$260) (4v - 10)(8v^2 - 9v + 15)$$

$$32v^3 - 116v^2 + 150v - 150$$

$$261) (13x + 19)(18x^2 + 15x + 6)$$

$$234x^3 + 537x^2 + 363x + 114$$

$$262) (10n - 2)(7n^2 - 3n - 4)$$

$$70n^3 - 44n^2 - 34n + 8$$

$$263) (6a - 13)(18a^2 + 12a - 13)$$

$$108a^3 - 162a^2 - 234a + 169$$

$$264) (15k + 7)(15k^2 - 5k + 10)$$

$$225k^3 + 30k^2 + 115k + 70$$

$$265) (12x - 5)(4x^2 + 18x + 1)$$

$$48x^3 + 196x^2 - 78x - 5$$

$$266) (8x + 15)(15x^2 - 8x - 9)$$

$$120x^3 + 161x^2 - 192x - 135$$

$$267) (18n - 6)(12n^2 + 15n - 18)$$

$$216n^3 + 198n^2 - 414n + 108$$

$$268) (14m - 18)(m^2 - 2m + 14)$$

$$14m^3 - 46m^2 + 232m - 252$$

$$269) (10p + 3)(12p^2 + 12p + 5)$$

$$120p^3 + 156p^2 + 86p + 15$$

$$270) (20x - 9)(x^2 - 5x - 5)$$

$$20x^3 - 109x^2 - 55x + 45$$

$$271) (16n + 11)(19n^2 + 19n - 14)$$

$$304n^3 + 513n^2 - 15n - 154$$

$$272) (13b - 1)(9b^2 + b + 9)$$

$$117b^3 + 4b^2 + 116b - 9$$

$$273) (9r + 19)(19r^2 + 16r - 6)$$

$$171r^3 + 505r^2 + 250r - 114$$

$$274) (18x + 7)(8x^2 - 2x - 10)$$

$$144x^3 + 20x^2 - 194x - 70$$

$$275) (15n - 13)(5n^2 - 19n - 19)$$

$$75n^3 - 350n^2 - 38n + 247$$

$$276) (11a + 16)(16a^2 - 5a + 13)$$

$$176a^3 + 201a^2 + 63a + 208$$

$$277) (20v - 16)(2v^2 + 3v - 20)$$
$$40v^3 + 28v^2 - 448v + 320$$

$$278) (17x + 15)(15x^2 + 2x - 6)$$
$$255x^3 + 259x^2 - 72x - 90$$

$$279) (13x + 3)(13x^2 + 16x - 15)$$
$$169x^3 + 247x^2 - 147x - 45$$

$$280) (2a - 18)(2a^2 - a + 17)$$
$$4a^3 - 38a^2 + 52a - 306$$

$$281) (19k + 12)(12k^2 - 19k - 2)$$
$$228k^3 - 217k^2 - 266k - 24$$

$$282) (16p - 9)(2p^2 - 4p - 11)$$
$$32p^3 - 82p^2 - 140p + 99$$

$$283) (4x + 20)(20x^2 + 19x - 20)$$
$$80x^3 + 476x^2 + 300x - 400$$

$$284) (3n - 5)(11n^2 + 12n - 13)$$
$$33n^3 - 19n^2 - 99n + 65$$

$$285) (18m - 13)(20m^2 + 17m + 2)$$
$$360m^3 + 46m^2 - 185m - 26$$

$$286) (6r + 8)(17r^2 - r - 7)$$
$$102r^3 + 130r^2 - 50r - 56$$

$$287) (3x - 4)(6x^2 - 18x - 16)$$
$$18x^3 - 78x^2 + 24x + 64$$

$$288) (20n + 16)(17n^2 + 5n + 15)$$
$$340n^3 + 372n^2 + 380n + 240$$

$$289) (8b - 5)(6b^2 + 20b - 3)$$
$$48b^3 + 130b^2 - 124b + 15$$

$$290) (5v - 17)(3v^2 + 2v - 12)$$
$$15v^3 - 41v^2 - 94v + 204$$

$$291) (x + 3)(13x^2 - 15x + 20)$$
$$13x^3 + 24x^2 - 25x + 60$$

$$292) (7a + 12)(13a^2 - 18a + 1)$$
$$91a^3 + 30a^2 - 209a + 12$$

$$293) (11n - 8)(3n^2 + 10n - 9)$$
$$33n^3 + 86n^2 - 179n + 72$$

$$294) (4k + 18)(2k^2 - 8k - 17)$$
$$8k^3 + 4k^2 - 212k - 306$$

$$295) (13x + 20)(18x^2 - 17x - 20)$$
$$234x^3 + 139x^2 - 600x - 400$$

$$296) (9x + 8)(10x^2 + 3x + 14)$$
$$90x^3 + 107x^2 + 150x + 112$$

$$297) (6n - 13)(20n^2 - 15n + 5)$$
$$120n^3 - 350n^2 + 225n - 65$$

$$298) (15m + 17)(18m^2 - 13m + 10)$$
$$270m^3 + 111m^2 - 71m + 170$$

$$299) (12p - 4)(7p^2 - 17p + 18)$$
$$84p^3 - 232p^2 + 284p - 72$$

$$300) (8x + 16)(17x^2 + 6x + 9)$$
$$136x^3 + 320x^2 + 168x + 144$$

$$301) (35n - 12)(12n^2 - 4n - 47)$$
$$420n^3 - 284n^2 - 1597n + 564$$

$$302) (23b + 32)(16b^2 - 2b - 16)$$
$$368b^3 + 466b^2 - 432b - 512$$

$$303) (10r + 19)(32r^2 + 11r - 29)$$
$$320r^3 + 718r^2 - 81r - 551$$

$$304) (23x - 37)(49x^2 - 20x - 41)$$
$$1127x^3 - 2273x^2 - 203x + 1517$$

$$305) (48a - 6)(5a^2 + 5a - 8)$$

$$240a^3 + 210a^2 - 414a + 48$$

$$307) (10v - 19)(22v^2 + 17v - 21)$$

$$220v^3 - 248v^2 - 533v + 399$$

$$309) (48a - 44)(45a^2 + 11a + 44)$$

$$2160a^3 - 1452a^2 + 1628a - 1936$$

$$311) (35k - 41)(9k^2 + 31k + 26)$$

$$315k^3 + 716k^2 - 361k - 1066$$

$$313) (23n + 18)(35n^2 - 27n - 50)$$

$$805n^3 + 9n^2 - 1636n - 900$$

$$315) (22r + 50)(42r^2 - 2r + 27)$$

$$924r^3 + 2056r^2 + 494r + 1350$$

$$317) (10x - 7)(8x^2 - 33x + 15)$$

$$80x^3 - 386x^2 + 381x - 105$$

$$319) (48v + 11)(32v^2 - 39v - 22)$$

$$1536v^3 - 1520v^2 - 1485v - 242$$

$$321) (35x - 45)(48x^2 - 27x - 34)$$

$$1680x^3 - 3105x^2 + 25x + 1530$$

$$323) (23k + 30)(21k^2 - 33k - 14)$$

$$483k^3 - 129k^2 - 1312k - 420$$

$$325) (35p + 17)(37p^2 - 20p - 27)$$

$$1295p^3 - 71p^2 - 1285p - 459$$

$$327) (22m - 8)(10m^2 - 27m + 38)$$

$$220m^3 - 674m^2 + 1052m - 304$$

$$329) (10n + 49)(19n^2 - 39n + 50)$$

$$190n^3 + 541n^2 - 1411n + 2450$$

$$331) (10n + 10)(34n^2 - 33n - 43)$$

$$340n^3 + 10n^2 - 760n - 430$$

$$306) (10n - 50)(40n^2 - 8n + 48)$$

$$400n^3 - 2080n^2 + 880n - 2400$$

$$308) (48x + 25)(38x^2 - 14x - 33)$$

$$1824x^3 + 278x^2 - 1934x - 825$$

$$310) (36x + 12)(29x^2 - 2x - 45)$$

$$1044x^3 + 276x^2 - 1644x - 540$$

$$312) (35x + 31)(18x^2 + 5x + 7)$$

$$630x^3 + 733x^2 + 400x + 217$$

$$314) (23p - 13)(27p^2 - 8p + 19)$$

$$621p^3 - 535p^2 + 541p - 247$$

$$316) (10m - 39)(33m^2 + 39m + 9)$$

$$330m^3 - 897m^2 - 1431m - 351$$

$$318) (48n - 20)(24n^2 - 20n + 2)$$

$$1152n^3 - 1440n^2 + 496n - 40$$

$$320) (10b + 24)(40b^2 - 8b - 10)$$

$$400b^3 + 880b^2 - 292b - 240$$

$$322) (48n - 1)(13n^2 - 14n - 47)$$

$$624n^3 - 685n^2 - 2242n + 47$$

$$324) (35a - 14)(30a^2 - 46a - 2)$$

$$1050a^3 - 2030a^2 + 574a + 28$$

$$326) (23x - 40)(2x^2 - 8x - 39)$$

$$46x^3 - 264x^2 - 577x + 1560$$

$$328) (10p - 21)(26p^2 - 14p + 25)$$

$$260p^3 - 686p^2 + 544p - 525$$

$$330) (48x + 23)(43x^2 - 46x + 13)$$

$$2064x^3 - 1219x^2 - 434x + 299$$

$$332) (35r - 2)(16r^2 + 49r + 33)$$

$$560r^3 + 1683r^2 + 1057r - 66$$

333) $(48x - 15)(32x^2 - 39x + 21)$
 $1536x^3 - 2352x^2 + 1593x - 315$

335) $(35n + 29)(23n^2 - 27n + 9)$
 $805n^3 - 278n^2 - 468n + 261$

337) $(22x + 47)(21x^2 - 33x - 28)$
 $462x^3 + 261x^2 - 2167x - 1316$

339) $(10x - 9)(13x^2 + 37x + 17)$
 $130x^3 + 253x^2 - 163x - 153$

341) $(10k + 22)(45k^2 - 39k - 8)$
 $450k^3 + 600k^2 - 938k - 176$

343) $(35x - 48)(2x^2 + 43x - 32)$
 $70x^3 + 1409x^2 - 3184x + 1536$

345) $(48n - 4)(18n^2 - 46n - 45)$
 $864n^3 - 2280n^2 - 1976n + 180$

347) $(35x + 15)(42x^2 + 49x + 20)$
 $1470x^3 + 2345x^2 + 1435x + 300$

349) $(10b + 46)(24b^2 + 30b - 49)$
 $240b^3 + 1404b^2 + 890b - 2254$

351) $(10x - 23)(31x^2 - 45x + 27)$
 $310x^3 - 1163x^2 + 1305x - 621$

353) $(9a + 8)(13a^2 + 37a + 3)$
 $117a^3 + 437a^2 + 323a + 24$

355) $(35p - 5)(21p^2 + 18p - 22)$
 $735p^3 + 525p^2 - 860p + 110$

357) $(35n + 27)(2n^2 + 43n + 11)$
 $70n^3 + 1559n^2 + 1546n + 297$

359) $(35p - 43)(10p^2 + 24p - 14)$
 $350p^3 + 410p^2 - 1522p + 602$

334) $(48b - 47)(50b^2 - 20b + 46)$
 $2400b^3 - 3310b^2 + 3148b - 2162$

336) $(23a + 16)(40a^2 + 43a - 4)$
 $920a^3 + 1629a^2 + 596a - 64$

338) $(10v - 41)(5v^2 - 46v - 16)$
 $50v^3 - 665v^2 + 1726v + 656$

340) $(48n - 22)(29n^2 + 49n + 4)$
 $1392n^3 + 1714n^2 - 886n - 88$

342) $(48p + 9)(10p^2 - 27p - 20)$
 $480p^3 - 1206p^2 - 1203p - 180$

344) $(35m - 16)(34m^2 - 33m + 44)$
 $1190m^3 - 1699m^2 + 2068m - 704$

346) $(23r + 28)(10r^2 + 32r + 9)$
 $230r^3 + 1016r^2 + 1103r + 252$

348) $(22n - 42)(7n^2 - 39n - 37)$
 $154n^3 - 1152n^2 + 824n + 1554$

350) $(22v - 11)(15v^2 + 43v + 40)$
 $330v^3 + 781v^2 + 407v - 440$

352) $(48n + 21)(48n^2 + 24n + 15)$
 $2304n^3 + 2160n^2 + 1224n + 315$

354) $(48k - 49)(4k^2 + 49k - 9)$
 $192k^3 + 2156k^2 - 2833k + 441$

356) $(48x - 17)(37x^2 + 30x + 23)$
 $1776x^3 + 811x^2 + 594x - 391$

358) $(23m + 14)(45m^2 + 12m - 1)$
 $1035m^3 + 906m^2 + 145m - 14$

360) $(22x + 45)(26x^2 + 37x - 26)$
 $572x^3 + 1984x^2 + 1093x - 1170$

$$361) (10n - 12)(42n^2 + 49n - 38)$$

$$420n^3 - 14n^2 - 968n + 456$$

$$363) (10r + 20)(50r^2 + 30r + 38)$$

$$500r^3 + 1300r^2 + 980r + 760$$

$$365) (48x + 7)(15x^2 + 43x - 18)$$

$$720x^3 + 2169x^2 - 563x - 126$$

$$367) (35v - 19)(39v^2 + 37v + 46)$$

$$1365v^3 + 554v^2 + 907v - 874$$

$$369) (35x + 13)(47x^2 + 18x + 22)$$

$$1645x^3 + 1241x^2 + 1004x + 286$$

$$371) (35k + 44)(29k^2 - k - 3)$$

$$1015k^3 + 1241k^2 - 149k - 132$$

$$373) (22n + 19)(2n^2 - 7n + 17)$$

$$44n^3 - 116n^2 + 241n + 323$$

$$375) (9m + 6)(18m^2 + 5m + 5)$$

$$162m^3 + 153m^2 + 75m + 30$$

$$377) (9x - 7)(25x^2 + 30x - 20)$$

$$225x^3 + 95x^2 - 390x + 140$$

$$379) (35b + 24)(7b^2 + 12b - 44)$$

$$245b^3 + 588b^2 - 1252b - 1056$$

$$381) (47v + 12)(49v^2 + 24v + 45)$$

$$2303v^3 + 1716v^2 + 2403v + 540$$

$$383) (35a - 14)(47a^2 + 18a - 36)$$

$$1645a^3 - 28a^2 - 1512a + 504$$

$$385) (9p + 17)(4p^2 - p + 40)$$

$$36p^3 + 59p^2 + 343p + 680$$

$$387) (9n + 49)(37n^2 - 20n + 16)$$

$$333n^3 + 1633n^2 - 836n + 784$$

$$362) (22b - 24)(34b^2 + 18b + 50)$$

$$748b^3 - 420b^2 + 668b - 1200$$

$$364) (9n - 50)(7n^2 + 12n - 30)$$

$$63n^3 - 242n^2 - 870n + 1500$$

$$366) (48a - 6)(23a^2 + 24a - 43)$$

$$1104a^3 + 1014a^2 - 2208a + 258$$

$$368) (48x + 26)(5x^2 + 5x + 34)$$

$$240x^3 + 370x^2 + 1762x + 884$$

$$370) (22n - 44)(12n^2 + 30n + 9)$$

$$264n^3 + 132n^2 - 1122n - 396$$

$$372) (10x - 26)(36x^2 + 24x + 29)$$

$$360x^3 - 696x^2 - 334x - 754$$

$$374) (22p - 13)(45p^2 + 12p - 15)$$

$$990p^3 - 321p^2 - 486p + 195$$

$$376) (48r + 50)(34r^2 + 18r - 7)$$

$$1632r^3 + 2564r^2 + 564r - 350$$

$$378) (48n - 20)(42n^2 - n - 32)$$

$$2016n^3 - 888n^2 - 1516n + 640$$

$$380) (35x - 45)(15x^2 - 7x - 12)$$

$$525x^3 - 920x^2 - 105x + 540$$

$$382) (22n + 43)(31n^2 + 5n - 24)$$

$$682n^3 + 1443n^2 - 313n - 1032$$

$$384) (22k - 27)(39k^2 - 14k - 48)$$

$$858k^3 - 1361k^2 - 678k + 1296$$

$$386) (22x + 5)(20x^2 + 12x + 28)$$

$$440x^3 + 364x^2 + 676x + 140$$

$$388) (48m - 8)(28m^2 - 7m + 3)$$

$$1344m^3 - 560m^2 + 200m - 24$$

$$389) (9r - 21)(44r^2 + 5r + 48)$$

$$396r^3 - 879r^2 + 327r - 1008$$

$$391) (35n + 11)(26n^2 - 14n + 24)$$

$$910n^3 - 204n^2 + 686n + 264$$

$$393) (35r + 42)(33r^2 - 32r - 1)$$

$$1155r^3 + 266r^2 - 1379r - 42$$

$$395) (35n - 28)(41n^2 - 7n - 25)$$

$$1435n^3 - 1393n^2 - 679n + 700$$

$$397) (9v + 4)(23v^2 - 26v - 50)$$

$$207v^3 - 142v^2 - 554v - 200$$

$$399) (9x - 9)(30x^2 - x - 18)$$

$$270x^3 - 279x^2 - 153x + 162$$

$$401) (48k - 13)(90k^2 - 81k + 83)$$

$$4320k^3 - 5058k^2 + 5037k - 1079$$

$$403) (89x - 67)(97x^2 + 41x + 97)$$

$$8633x^3 - 2850x^2 + 5886x - 6499$$

$$405) (29m + 79)(59m^2 - 32m - 89)$$

$$1711m^3 + 3733m^2 - 5109m - 7031$$

$$407) (12x + 24)(66x^2 + 90x - 80)$$

$$792x^3 + 2664x^2 + 1200x - 1920$$

$$409) (53b - 30)(29b^2 + 11b - 65)$$

$$1537b^3 - 287b^2 - 3775b + 1950$$

$$411) (35n + 86)(16n^2 - 4n + 57)$$

$$560n^3 + 1236n^2 + 1651n + 4902$$

$$413) (78a + 61)(99a^2 + 59a - 36)$$

$$7722a^3 + 10641a^2 + 791a - 2196$$

$$415) (18p + 7)(4p^2 - 15p - 27)$$

$$72p^3 - 242p^2 - 591p - 189$$

$$390) (48x + 23)(10x^2 - 26x + 36)$$

$$480x^3 - 1018x^2 + 1130x + 828$$

$$392) (47b - 46)(17b^2 - b + 11)$$

$$799b^3 - 829b^2 + 563b - 506$$

$$394) (22x - 15)(50x^2 - 20x - 13)$$

$$1100x^3 - 1190x^2 + 14x + 195$$

$$396) (22a + 16)(6a^2 + 5a - 38)$$

$$132a^3 + 206a^2 - 756a - 608$$

$$398) (22x + 48)(39x^2 - 14x - 5)$$

$$858x^3 + 1564x^2 - 782x - 240$$

$$400) (48n - 22)(47n^2 - 32n - 30)$$

$$2256n^3 - 2570n^2 - 736n + 660$$

$$402) (46p - 38)(71p^2 - 17p - 10)$$

$$3266p^3 - 3480p^2 + 186p + 380$$

$$404) (30n - 92)(78n^2 - 96n + 4)$$

$$2340n^3 - 10056n^2 + 8952n - 368$$

$$406) (71r + 54)(41r^2 + 26r + 14)$$

$$2911r^3 + 4060r^2 + 2398r + 756$$

$$408) (11n - 1)(47n^2 - 48n + 28)$$

$$517n^3 - 575n^2 + 356n - 28$$

$$410) (96v - 60)(10v^2 + 74v + 42)$$

$$960v^3 + 6504v^2 - 408v - 2520$$

$$412) (94x - 85)(35x^2 - 63x - 51)$$

$$3290x^3 - 8897x^2 + 561x + 4335$$

$$414) (76k + 31)(23k^2 - 78k + 66)$$

$$1748k^3 - 5215k^2 + 2598k + 2046$$

$$416) (60x - 23)(87x^2 + 44x + 81)$$

$$5220x^3 + 639x^2 + 3848x - 1863$$

417) $(58n - 48)(68n^2 - 94n - 12)$
 $3944n^3 - 8716n^2 + 3816n + 576$

419) $(41x + 68)(56x^2 + 92x - 91)$
 $2296x^3 + 7580x^2 + 2525x - 6188$

421) $(83n + 44)(37n^2 - 45n + 17)$
 $3071n^3 - 2107n^2 - 569n + 748$

423) $(65x - 41)(25x^2 - 61x - 67)$
 $1625x^3 - 4990x^2 - 1854x + 2747$

425) $(23r - 16)(44r^2 + 77r + 26)$
 $1012r^3 + 1067r^2 - 634r - 416$

427) $(48v + 76)(13v^2 - 76v + 55)$
 $624v^3 - 2660v^2 - 3136v + 4180$

429) $(30n - 4)(n^2 - 91n - 24)$
 $30n^3 - 2734n^2 - 356n + 96$

431) $(72k - 34)(83k^2 - 28k + 79)$
 $5976k^3 - 4838k^2 + 6640k - 2686$

433) $(12x - 88)(90x^2 + 95x + 93)$
 $1080x^3 - 6780x^2 - 7244x - 8184$

435) $(53m + 58)(53m^2 + 16m - 93)$
 $2809m^3 + 3922m^2 - 4001m - 5394$

437) $(35n - 26)(41n^2 + 29n - 27)$
 $1435n^3 - 51n^2 - 1699n + 702$

439) $(77b - 51)(22b^2 + 64b - 69)$
 $1694b^3 + 3806b^2 - 8577b + 3519$

441) $(17x + 95)(29x^2 - 15x - 55)$
 $493x^3 + 2500x^2 - 2360x - 5225$

443) $(a + 40)(92a^2 - 89a - 40)$
 $92a^3 + 3591a^2 - 3600a - 1600$

418) $(64m - 65)(24m^2 + 95m + 39)$
 $1536m^3 + 4520m^2 - 3679m - 2535$

420) $(42r + 98)(75r^2 + 29r + 2)$
 $3150r^3 + 8568r^2 + 2926r + 196$

422) $(25b + 14)(63b^2 + 13b - 77)$
 $1575b^3 + 1207b^2 - 1743b - 1078$

424) $(7n - 71)(7n^2 - 2n + 40)$
 $49n^3 - 511n^2 + 422n - 2840$

426) $(5a - 95)(32a^2 + 62a - 53)$
 $160a^3 - 2730a^2 - 6155a + 5035$

428) $(88x + 21)(20x^2 + 46x + 69)$
 $1760x^3 + 4468x^2 + 7038x + 1449$

430) $(90x + 51)(95x^2 - 17x - 38)$
 $8550x^3 + 3315x^2 - 4287x - 1938$

432) $(54n + 83)(71n^2 - 43n - 14)$
 $3834n^3 + 3571n^2 - 4325n - 1162$

434) $(71p - 58)(65p^2 + 31p - 14)$
 $4615p^3 - 1569p^2 - 2792p + 812$

436) $(95r + 28)(34r^2 + 79r + 14)$
 $3230r^3 + 8457r^2 + 3542r + 392$

438) $(37x + 3)(59x^2 - 58x - 79)$
 $2183x^3 - 1969x^2 - 3097x - 237$

440) $(19v - 81)(3v^2 - 73v + 38)$
 $57v^3 - 1630v^2 + 6635v - 3078$

442) $(60n + 65)(10n^2 + 49n + 53)$
 $600n^3 + 3590n^2 + 6365n + 3445$

444) $(42p - 19)(99p^2 + 33p - 26)$
 $4158p^3 - 495p^2 - 1719p + 494$

445) $(100k + 11)(16k^2 - 30k + 67)$
 $1600k^3 - 2824k^2 + 6370k + 737$

446) $(84x - 44)(80x^2 + 97x + 82)$
 $6720x^3 + 4628x^2 + 2620x - 3608$

447) $(83n - 74)(61n^2 - 45n - 12)$
 $5063n^3 - 8249n^2 + 2334n + 888$

448) $(24m - 99)(87m^2 + 18m + 91)$
 $2088m^3 - 8181m^2 + 402m - 9009$

449) $(66r + 72)(68r^2 + 82r - 2)$
 $4488r^3 + 10308r^2 + 5772r - 144$

450) $(65x + 48)(49x^2 - 56x - 95)$
 $3185x^3 - 1288x^2 - 8863x - 4560$

451) $(6n + 18)(31n^2 + 3n + 12)$
 $186n^3 + 576n^2 + 126n + 216$

452) $(47v - 37)(37v^2 - 71v + 27)$
 $1739v^3 - 4706v^2 + 3896v - 999$

453) $(90x - 62)(19x^2 - 12x - 66)$
 $1710x^3 - 2258x^2 - 5196x + 4092$

454) $(49b - 7)(56b^2 + 67b - 81)$
 $2744b^3 + 2891b^2 - 4438b + 567$

455) $(31n - 92)(62n^2 + 41n + 12)$
 $1922n^3 - 4433n^2 - 3400n - 1104$

456) $(29a + 80)(25a^2 - 86a - 57)$
 $725a^3 - 494a^2 - 8533a - 4560$

457) $(72v + 55)(7v^2 - 28v + 51)$
 $504v^3 - 1631v^2 + 2132v + 2805$

458) $(13x + 25)(89x^2 + 36x - 42)$
 $1157x^3 + 2693x^2 + 354x - 1050$

459) $(12x + 74)(69x^2 + 65x + 69)$
 $828x^3 + 5886x^2 + 5638x + 5106$

460) $(54n - 30)(96n^2 - 43n - 28)$
 $5184n^3 - 5202n^2 - 222n + 840$

461) $(96k - 54)(77k^2 + 21k + 80)$
 $7392k^3 - 2142k^2 + 6546k - 4320$

462) $(38p - 84)(58p^2 + 84p - 14)$
 $2204p^3 - 1680p^2 - 7588p + 1176$

463) $(36x + 92)(83x^2 - 58x + 94)$
 $2988x^3 + 5548x^2 - 1952x + 8648$

464) $(79n + 62)(65n^2 + 5n - 4)$
 $5135n^3 + 4425n^2 - 6n - 248$

465) $(20m + 37)(46m^2 + 69m - 97)$
 $920m^3 + 3082m^2 + 613m - 3589$

466) $(18r + 7)(27r^2 - 73r + 10)$
 $486r^3 - 1125r^2 - 331r + 70$

467) $(61x - 22)(53x^2 - 10x - 83)$
 $3233x^3 - 1776x^2 - 4843x + 1826$

468) $(2n - 47)(34n^2 + 54n + 25)$
 $68n^3 - 1490n^2 - 2488n - 1175$

469) $(b - 77)(15b^2 - 84b - 68)$
 $15b^3 - 1239b^2 + 6400b + 5236$

470) $(43v + 99)(98v^2 - 25v + 39)$
 $4214v^3 + 8627v^2 - 798v + 3861$

471) $(85x + 69)(22x^2 + 38x - 54)$
 $1870x^3 + 4748x^2 - 1968x - 3726$

472) $(84n + 44)(3n^2 - 99n + 54)$
 $252n^3 - 8184n^2 + 180n + 2376$

$$473) (25a + 15)(86a^2 - 40a - 45)$$

$$2150a^3 + 290a^2 - 1725a - 675$$

$$475) (66p - 40)(92p^2 + 87p - 30)$$

$$6072p^3 + 2062p^2 - 5460p + 1200$$

$$477) (50n - 95)(55n^2 + 8n - 16)$$

$$2750n^3 - 4825n^2 - 1560n + 1520$$

$$479) (91r + 52)(61r^2 - 71r - 1)$$

$$5551r^3 - 3289r^2 - 3783r - 52$$

$$481) (73b - 33)(49b^2 - 86b - 85)$$

$$3577b^3 - 7895b^2 - 3367b + 2805$$

$$483) (14v - 58)(31v^2 - 23v + 23)$$

$$434v^3 - 2120v^2 + 1656v - 1334$$

$$485) (55n + 89)(94n^2 - 97n + 37)$$

$$5170n^3 + 3031n^2 - 6598n + 3293$$

$$487) (96v + 34)(25v^2 + 52v - 100)$$

$$2400v^3 + 5842v^2 - 7832v - 3400$$

$$489) (80x - 26)(64x^2 - 53x + 61)$$

$$5120x^3 - 5904x^2 + 6258x - 1586$$

$$491) (20k - 80)(70k^2 + 74k + 76)$$

$$1400k^3 - 4120k^2 - 4400k - 6080$$

$$493) (60x + 66)(77x^2 - 5x + 90)$$

$$4620x^3 + 4782x^2 + 5070x + 5940$$

$$495) (44m + 11)(39m^2 - 84m - 96)$$

$$1716m^3 - 3267m^2 - 5148m - 1056$$

$$497) (26n - 68)(27n^2 - 99n + 21)$$

$$702n^3 - 4410n^2 + 7278n - 1428$$

$$499) (25b - 98)(9b^2 - 35b - 73)$$

$$225b^3 - 1757b^2 + 1605b + 7154$$

$$474) (68k - 10)(67k^2 + 23k + 63)$$

$$4556k^3 + 894k^2 + 4054k - 630$$

$$476) (7x - 65)(74x^2 - 56x + 78)$$

$$518x^3 - 5202x^2 + 4186x - 5070$$

$$478) (48m + 76)(80m^2 + 71m + 92)$$

$$3840m^3 + 9488m^2 + 9812m + 6992$$

$$480) (32x + 22)(43x^2 - 7x - 94)$$

$$1376x^3 + 722x^2 - 3162x - 2068$$

$$482) (31n - 3)(24n^2 + 56n + 8)$$

$$744n^3 + 1664n^2 + 80n - 24$$

$$484) (13x - 88)(12x^2 + 41x - 70)$$

$$156x^3 - 523x^2 - 4518x + 6160$$

$$486) (98a + 59)(19a^2 - 38a - 56)$$

$$1862a^3 - 2603a^2 - 7730a - 3304$$

$$488) (37x + 4)(82x^2 + 89x - 42)$$

$$3034x^3 + 3621x^2 - 1198x - 168$$

$$490) (78n - 51)(89n^2 + 10n - 32)$$

$$6942n^3 - 3759n^2 - 3006n + 1632$$

$$492) (62p + 96)(52p^2 - 69p - 18)$$

$$3224p^3 + 714p^2 - 7740p - 1728$$

$$494) (2n + 41)(58n^2 + 59n - 3)$$

$$116n^3 + 2496n^2 + 2413n - 123$$

$$496) (43r - 13)(21r^2 - 20r + 11)$$

$$903r^3 - 1133r^2 + 733r - 143$$

$$498) (85x - 43)(46x^2 + 43x - 82)$$

$$3910x^3 + 1677x^2 - 8819x + 3526$$

$$500) (67v + 73)(91v^2 + 28v + 35)$$

$$6097v^3 + 8519v^2 + 4389v + 2555$$

$$501) (9x + 48)(15x^2 + 87x - 58)$$
$$135x^3 + 1503x^2 + 3654x - 2784$$

$$503) (49a - 6)(79a^2 + 13a - 44)$$
$$3871a^3 + 163a^2 - 2234a + 264$$
$$505) (32x - 91)(67x^2 - 2x + 74)$$
$$2144x^3 - 6161x^2 + 2550x - 6734$$
$$507) (74n + 85)(48n^2 + 61n - 20)$$
$$3552n^3 + 8594n^2 + 3705n - 1700$$

$$509) (14r + 31)(55r^2 - 18r - 5)$$
$$770r^3 + 1453r^2 - 628r - 155$$
$$511) (97b - 54)(43b^2 - 33b - 84)$$
$$4171b^3 - 5523b^2 - 6366b + 4536$$

$$513) (55n - 29)(18n^2 - 97n + 9)$$
$$990n^3 - 5857n^2 + 3308n - 261$$
$$515) (21a + 38)(12a^2 + 15a - 60)$$
$$252a^3 + 771a^2 - 690a - 2280$$

$$517) (19k + 8)(94k^2 + 74k + 48)$$
$$1786k^3 + 2158k^2 + 1504k + 384$$
$$519) (62x - 17)(76x^2 - 64x - 46)$$
$$4712x^3 - 5260x^2 - 1764x + 782$$

$$521) (44k + 100)(64k^2 - 79k + 77)$$
$$2816k^3 + 2924k^2 - 4512k + 7700$$

$$523) (85x + 45)(70x^2 + 48x + 86)$$
$$5950x^3 + 7230x^2 + 9470x + 3870$$
$$525) (68m - 10)(33m^2 - 31m + 100)$$
$$2244m^3 - 2438m^2 + 7110m - 1000$$

$$527) (8x - 64)(40x^2 + 92x - 86)$$
$$320x^3 - 1824x^2 - 6576x + 5504$$

$$502) (7n + 19)(98n^2 - 51n + 50)$$
$$686n^3 + 1505n^2 - 619n + 950$$
$$504) (90p - 61)(86p^2 - 66p - 29)$$
$$7740p^3 - 11186p^2 + 1416p + 1769$$

$$506) (92k - 36)(60k^2 + 76k + 64)$$
$$5520k^3 + 4832k^2 + 3152k - 2304$$
$$508) (72m + 56)(74m^2 - 81m + 88)$$
$$5328m^3 - 1688m^2 + 1800m + 4928$$
$$510) (56x + 1)(36x^2 + 46x - 99)$$
$$2016x^3 + 2612x^2 - 5498x - 99$$

$$512) (39v - 84)(24v^2 + 31v + 24)$$
$$936v^3 - 807v^2 - 1668v - 2016$$
$$514) (37x + 93)(5x^2 + 89x - 75)$$
$$185x^3 + 3758x^2 + 5502x - 6975$$
$$516) (79n + 63)(88n^2 - 48n + 33)$$
$$6952n^3 + 1752n^2 - 417n + 2079$$

$$518) (3x - 47)(57x^2 + 62x - 12)$$
$$171x^3 - 2493x^2 - 2950x + 564$$
$$520) (n - 71)(82n^2 + 59n - 31)$$
$$82n^3 - 5763n^2 - 4220n + 2201$$
$$522) (86p + 70)(45p^2 - 15p - 17)$$
$$3870p^3 + 1860p^2 - 2512p - 1190$$
$$524) (26n + 15)(52n^2 - 94n - 7)$$
$$1352n^3 - 1664n^2 - 1592n - 105$$

$$526) (10r - 39)(14r^2 + 33r + 7)$$
$$140r^3 - 216r^2 - 1217r - 273$$
$$528) (93b + 82)(2b^2 + 18b - 72)$$
$$186b^3 + 1838b^2 - 5220b - 5904$$

529) $(91v + 52)(84v^2 + 76v + 36)$
 $7644v^3 + 11284v^2 + 7228v + 1872$

531) $(33x + 28)(9x^2 - 61x - 62)$
 $297x^3 - 1761x^2 - 3754x - 1736$

533) $(75x - 2)(91x^2 + 2x + 46)$
 $6825x^3 - 32x^2 + 3446x - 92$

535) $(57p - 87)(79p^2 - 13p - 33)$
 $4503p^3 - 7614p^2 - 750p + 2871$

537) $(40m + 35)(23m^2 - 28m + 89)$
 $920m^3 - 315m^2 + 2580m + 3115$

539) $(38r + 5)(48r^2 + 35r - 4)$
 $1824r^3 + 1570r^2 + 23r - 20$

541) $(80x - 20)(30x^2 + 94x + 98)$
 $2400x^3 + 6920x^2 + 5960x - 1960$

543) $(63v + 97)(18v^2 + 79v + 20)$
 $1134v^3 + 6723v^2 + 8923v + 1940$

545) $(3n + 42)(81n^2 + 5n + 34)$
 $243n^3 + 3417n^2 + 312n + 1428$

547) $(87k - 13)(88k^2 - 74k + 48)$
 $7656k^3 - 7582k^2 + 5138k - 624$

549) $(27x - 67)(50x^2 + 48x + 58)$
 $1350x^3 - 2054x^2 - 1650x - 3886$

551) $(68k + 79)(57k^2 - 26k + 72)$
 $3876k^3 + 2735k^2 + 2842k + 5688$

553) $(52x + 24)(20x^2 + 97x + 87)$
 $1040x^3 + 5524x^2 + 6852x + 2088$

555) $(93m - 35)(26m^2 + 18m - 100)$
 $2418m^3 + 764m^2 - 9930m + 3500$

530) $(51n - 94)(21n^2 - 46n + 22)$
 $1071n^3 - 4320n^2 + 5446n - 2068$

532) $(15k - 57)(54k^2 - 76k + 60)$
 $810k^3 - 4218k^2 + 5232k - 3420$

534) $(74a - 32)(72a^2 + 61a - 48)$
 $5328a^3 + 2210a^2 - 5504a + 1536$

536) $(56x + 89)(60x^2 + 46x + 74)$
 $3360x^3 + 7916x^2 + 8238x + 6586$

538) $(98n + 60)(42n^2 - 92n - 19)$
 $4116n^3 - 6496n^2 - 7382n - 1140$

540) $(20b - 75)(36b^2 + 20b - 88)$
 $720b^3 - 2300b^2 - 3260b + 6600$

542) $(22n - 50)(11n^2 - 43n + 5)$
 $242n^3 - 1496n^2 + 2260n - 250$

544) $(4x + 67)(100x^2 - 59x - 74)$
 $400x^3 + 6464x^2 - 4249x - 4958$

546) $(45a + 12)(5a^2 + 64a - 59)$
 $225a^3 + 2940a^2 - 1887a - 708$

548) $(86x - 43)(69x^2 - 10x - 50)$
 $5934x^3 - 3827x^2 - 3870x + 2150$

550) $(70n - 97)(76n^2 - 89n - 35)$
 $5320n^3 - 13602n^2 + 6183n + 3395$

552) $(9p + 49)(38p^2 + 33p - 21)$
 $342p^3 + 2159p^2 + 1428p - 1029$

554) $(50n - 6)(45n^2 - 41n - 6)$
 $2250n^3 - 2320n^2 - 54n + 36$

556) $(34r - 60)(8r^2 + 81r + 3)$
 $272r^3 + 2274r^2 - 4758r - 180$

557) $(32x - 90)(33x^2 - 56x - 90)$
 $1056x^3 - 4762x^2 + 2160x + 8100$

559) $(16b + 56)(97b^2 + 66b - 76)$
 $1552b^3 + 6488b^2 + 2480b - 4256$

561) $(57x + 2)(2x^2 - 8x - 61)$
 $114x^3 - 452x^2 - 3493x - 122$

563) $(98a - 53)(66a^2 - 87a - 47)$
 $6468a^3 - 12024a^2 + 5a + 2491$

565) $(82p + 93)(72p^2 + 35p - 37)$
 $5904p^3 + 9566p^2 + 221p - 3441$

567) $(21n + 39)(35n^2 - 38n - 23)$
 $735n^3 + 567n^2 - 1965n - 897$

569) $(62r - 16)(42r^2 + 84r - 8)$
 $2604r^3 + 4536r^2 - 1840r + 128$

571) $(46n - 71)(4n^2 + 5n + 6)$
 $184n^3 - 54n^2 - 79n - 426$

573) $(87v + 76)(11v^2 - 69v + 15)$
 $957v^3 - 5167v^2 - 3939v + 1140$

575) $(27n + 21)(75n^2 + 53n + 30)$
 $2025n^3 + 3006n^2 + 1923n + 630$

577) $(11k - 39)(81k^2 - 21k + 44)$
 $891k^3 - 3390k^2 + 1303k - 1716$

579) $(51x - 93)(44x^2 - 100x + 59)$
 $2244x^3 - 9192x^2 + 12309x - 5487$

581) $(94n + 83)(69n^2 - 36n - 34)$
 $6486n^3 + 2343n^2 - 6184n - 2822$

583) $(76x - 2)(13x^2 - 51x + 83)$
 $988x^3 - 3902x^2 + 6410x - 166$

558) $(75n + 86)(14n^2 + 7n + 18)$
 $1050n^3 + 1729n^2 + 1952n + 1548$

560) $(15v + 31)(78v^2 - 71v + 32)$
 $1170v^3 + 1353v^2 - 1721v + 992$

562) $(99x - 23)(85x^2 + 51x + 46)$
 $8415x^3 + 3094x^2 + 3381x - 1058$

564) $(39k - 78)(47k^2 - 23k + 61)$
 $1833k^3 - 4563k^2 + 4173k - 4758$

566) $(80x + 64)(54x^2 + 99x + 70)$
 $4320x^3 + 11376x^2 + 11936x + 4480$

568) $(64m + 9)(16m^2 + 20m + 85)$
 $1024m^3 + 1424m^2 + 5620m + 765$

570) $(4x - 46)(23x^2 - 54x + 99)$
 $92x^3 - 1274x^2 + 2880x - 4554$

572) $(44b - 100)(30b^2 + 68b - 87)$
 $1320b^3 - 8b^2 - 10628b + 8700$

574) $(28x + 46)(93x^2 - 10x - 78)$
 $2604x^3 + 3998x^2 - 2644x - 3588$

576) $(69a - 9)(100a^2 - 84a - 63)$
 $6900a^3 - 6696a^2 - 3591a + 567$

578) $(9x - 63)(63x^2 + 38x - 49)$
 $567x^3 - 3627x^2 - 2835x + 3087$

580) $(92m + 53)(50m^2 + 23m + 68)$
 $4600m^3 + 4766m^2 + 7475m + 3604$

582) $(34p + 28)(32p^2 + 86p - 25)$
 $1088p^3 + 3820p^2 + 1558p - 700$

584) $(74n - 26)(38n^2 + 7n - 11)$
 $2812n^3 - 470n^2 - 996n + 286$

$$585) (16m - 56)(20m^2 + 71m + 97)$$
$$320m^3 + 16m^2 - 2424m - 5432$$

$$586) (58r - 81)(r^2 - 67r + 4)$$
$$58r^3 - 3967r^2 + 5659r - 324$$

$$587) (99n + 60)(8n^2 + 56n + 18)$$
$$792n^3 + 6024n^2 + 5142n + 1080$$

$$588) (9x - 14)(76x^2 - 89x - 53)$$
$$684x^3 - 1865x^2 + 769x + 742$$

$$589) (40b + 35)(90b^2 - 82b - 75)$$
$$3600b^3 - 130b^2 - 5870b - 2625$$

$$590) (83v + 6)(71v^2 - 23v + 28)$$
$$5893v^3 - 1483v^2 + 2186v + 168$$

$$591) (81x - 19)(97x^2 + 40x - 65)$$
$$7857x^3 + 1397x^2 - 6025x + 1235$$

$$592) (23x - 49)(78x^2 - 97x + 42)$$
$$1794x^3 - 6053x^2 + 5719x - 2058$$

$$593) (65a - 74)(59a^2 - 33a - 51)$$
$$3835a^3 - 6511a^2 - 873a + 3774$$

$$594) (63k + 97)(41k^2 + 25k + 57)$$
$$2583k^3 + 5552k^2 + 6016k + 5529$$

$$595) (5p + 72)(66p^2 + 89p - 36)$$
$$330p^3 + 5197p^2 + 6228p - 2592$$

$$596) (46n + 18)(28n^2 + 10n - 22)$$
$$1288n^3 + 964n^2 - 832n - 396$$

$$597) (47x + 43)(47x^2 - 49x + 71)$$
$$2209x^3 - 282x^2 + 1230x + 3053$$

$$598) (88m - 12)(10m^2 + 73m + 81)$$
$$880m^3 + 6304m^2 + 6252m - 972$$

$$599) (29r - 42)(35r^2 - 64r - 13)$$
$$1015r^3 - 3326r^2 + 2311r + 546$$

$$600) (28x - 67)(16x^2 - 5x + 95)$$
$$448x^3 - 1212x^2 + 2995x - 6365$$