

Polynomials - single variable - fractions

Simplify each sum.

$$1) \left(\frac{1}{4}m^4 + 2\frac{1}{2}m \right) + \left(1\frac{6}{7}m + \frac{1}{2}m^4 \right)$$

$$2) \left(2\frac{1}{2}n^3 - 4\frac{2}{3} \right) + \left(\frac{1}{2} + 1\frac{2}{3}n^3 \right)$$

$$3) \left(1\frac{3}{7}a^4 + 2\frac{1}{7}a^3 \right) + \left(\frac{1}{2}a^3 + 5a^4 \right)$$

$$4) \left(1\frac{2}{3}x + 1\frac{2}{5}x^2 \right) + \left(1\frac{4}{5}x^2 + \frac{1}{2}x \right)$$

$$5) \left(5\frac{3}{4}x - 2 \right) + \left(3 + 1\frac{4}{5}x \right)$$

$$6) \left(1\frac{1}{2} - 5x \right) + \left(1 + \frac{1}{2}x \right)$$

$$7) \left(\frac{1}{4} + 1\frac{2}{3}b^4 \right) + \left(7b^4 - \frac{1}{2} \right)$$

$$8) \left(\frac{1}{2} + \frac{1}{6}v^2 \right) + \left(3\frac{2}{5}v^2 - 2 \right)$$

$$9) \left(\frac{1}{3}r^3 + \frac{1}{7}r \right) + \left(2\frac{3}{4}r - 1\frac{4}{5}r^3 \right)$$

$$10) \left(\frac{1}{4}m - \frac{1}{2}m^3 \right) + \left(2m^3 + 1\frac{5}{7}m \right)$$

$$11) \left(2 - 1\frac{1}{7}b^2 \right) + \left(2\frac{4}{7} + 4\frac{1}{2}b^2 \right)$$

$$12) \left(6p^4 + 3\frac{1}{5} \right) + \left(2\frac{3}{4}p^4 + \frac{1}{4} \right)$$

$$13) \left(1\frac{1}{3}a^4 - a\right) + \left(1\frac{1}{3}a^4 + 2a^2\right)$$

$$14) \left(\frac{3}{4}n^4 + 1\frac{4}{5}n\right) + \left(\frac{2}{3} + n^4\right)$$

$$15) (4x^3 + 2x) + \left(2\frac{3}{7}x + 2\frac{1}{8}x^2\right)$$

$$16) \left(3\frac{4}{7}x^4 - 1\frac{1}{6}x^3\right) + \left(\frac{2}{3}x^3 + 3\frac{1}{2}x^2\right)$$

$$17) \left(2r^2 + 4\frac{1}{2}r^3\right) + \left(2\frac{3}{8}r^2 + \frac{2}{3}\right)$$

$$18) \left(3\frac{4}{7}v^3 - 2v^4\right) + \left(1\frac{1}{2}v^3 + 4\frac{1}{6}v^4\right)$$

$$19) (2 - n^3) + \left(2 + 3\frac{7}{8}n^3\right)$$

$$20) \left(2 + 4\frac{3}{5}x^4\right) + \left(2\frac{1}{6}x^3 + 1\frac{1}{3}x^4\right)$$

$$21) \left(1\frac{1}{3}m^4 + 1\frac{1}{2}m^3\right) + \left(4\frac{7}{8}m - \frac{6}{7}m^4\right)$$

$$22) \left(4\frac{1}{2}x^4 - 2\frac{2}{3}x^2\right) + \left(\frac{4}{5}x^4 + 1\frac{5}{7}x^2\right)$$

$$23) \left(p + 1\frac{2}{3}\right) + \left(3\frac{3}{4}p - 2\right)$$

$$24) \left(2x^4 + \frac{3}{8}x^2\right) + \left(1\frac{1}{2}x^4 + 8\frac{5}{8}x^2\right)$$

$$25) \left(4\frac{4}{5} + 2b^4\right) + \left(\frac{4}{5} + 1\frac{4}{7}b^4\right)$$

$$26) \left(1\frac{1}{2}k^4 - \frac{5}{8}k\right) + \left(k^4 + \frac{4}{5}k\right)$$

$$27) \left(1\frac{1}{4}n - 1\frac{1}{2}n^2\right) + \left(\frac{1}{2}n^2 + n\right)$$

$$28) \left(1\frac{1}{3}b + \frac{5}{7}b^3\right) + \left(3b^3 - 1\frac{2}{3}b\right)$$

$$29) \left(2\frac{1}{2}a - 2\frac{1}{6}a^2\right) + \left(2\frac{2}{3}a^2 + 2a\right)$$

$$30) \left(\frac{6}{7} - 1\frac{3}{4}r^4\right) + \left(\frac{1}{3}r^4 - \frac{2}{3}\right)$$

Answers to Polynomials - single variable - fractions

1) $\frac{3}{4}m^4 + 4\frac{5}{14}m$

2) $4\frac{1}{6}n^3 - 4\frac{1}{6}$

3) $6\frac{3}{7}a^4 + 2\frac{9}{14}a^3$

4) $3\frac{1}{5}x^2 + 2\frac{1}{6}x$

5) $7\frac{11}{20}x + 1$

6) $-4\frac{1}{2}x + 2\frac{1}{2}$

7) $8\frac{2}{3}b^4 - \frac{1}{4}$

8) $3\frac{17}{30}v^2 - 1\frac{1}{2}$

9) $-1\frac{7}{15}r^3 + 2\frac{25}{28}r$

10) $1\frac{1}{2}m^3 + 1\frac{27}{28}m$

11) $3\frac{5}{14}b^2 + 4\frac{4}{7}$

12) $8\frac{3}{4}p^4 + 3\frac{9}{20}$

13) $2\frac{2}{3}a^4 + 2a^2 - a$

14) $1\frac{3}{4}n^4 + 1\frac{4}{5}n + \frac{2}{3}$

15) $4x^3 + 2\frac{1}{8}x^2 + 4\frac{3}{7}x$

16) $3\frac{4}{7}x^4 - \frac{1}{2}x^3 + 3\frac{1}{2}x^2$

17) $4\frac{1}{2}r^3 + 4\frac{3}{8}r^2 + \frac{2}{3}$

18) $2\frac{1}{6}v^4 + 5\frac{1}{14}v^3$

19) $2\frac{7}{8}n^3 + 4$

20) $5\frac{14}{15}x^4 + 2\frac{1}{6}x^3 + 2$

21) $\frac{10}{21}m^4 + 1\frac{1}{2}m^3 + 4\frac{7}{8}m$

22) $5\frac{3}{10}x^4 - \frac{20}{21}x^2$

23) $4\frac{3}{4}p - \frac{1}{3}$

24) $3\frac{1}{2}x^4 + 9x^2$

25) $3\frac{4}{7}b^4 + 5\frac{3}{5}$

26) $2\frac{1}{2}k^4 + \frac{7}{40}k$

27) $-n^2 + 2\frac{1}{4}n$

28) $3\frac{5}{7}b^3 - \frac{1}{3}b$

29) $\frac{1}{2}a^2 + 4\frac{1}{2}a$

30) $-1\frac{5}{12}r^4 + \frac{4}{21}$