

Polynomials - single variable - decimals

Simplify each expression.

1) $(4.7n^3 + 1.1 - 4.1n) - (8.7 - 7.3n^3 - 9n) - (-2.1 - 7.3n^3 - 0.9n)$

2) $(-6.6n^4 + 5.5 + 1.9n^3) - (2 - 7n^3 - 9.44n^4) - (6.8n^4 + 9.3n^3 - 9.3)$

3) $(-3.3a + 9.6a^3 - 5.5a^2) + (-8.9a^2 + 7.6a^4 - 1.1a^3) + (1.7a^4 - 0.1 + 4.225a^2)$

$$4) (1.7x^2 + 9.9x + 8.3) + (-5.2x - 6.7x^2 - 8.8) + (-1.1x^2 + 2.73x - 0.3)$$

$$5) (10p^3 - 5.8p - 5.9) + (8.3p^3 - 6p - 8.4) - (-2.3p^3 - 4.8 - 5.6p)$$

$$6) (0.6m^4 - 6.9 - 9m^3) + (-5.7m - 8.5m^3 - 3.1) - (-6.7m - 0.8m^3 - 8.2m^4)$$

$$7) (2.391r + 6.5 + 4.2r^2) - (4.6r^2 - 0.1r^4 - 6.3) + (-8.5r - 2.3r^4 + 3.5)$$

$$8) (-8.9b^2 - 1.6b + 5.08b^3) + (-9.82b^3 - 7.7b^2 + 0.1) - (5b^2 + 9.9b - 8.4)$$

$$9) (-3.9 + 5.2a^2 - 0.8a^3) - (-7.4a + 8.3 - 6.17a^3) + (-3.19a^4 + 0.8a + 8.5a^2)$$

$$10) (-8.3n^2 + 8.82n^4 - 6.79) - (-9.8n^2 + 0.4n^4 - 8.176) - (-2n^2 - 5.6n + 2.85n^4)$$

$$11) (0.6x^3 - 9 + 3.9x^2) - (-7.5x^2 + 6.3 + 2.936x) + (5.4x^3 - 5.6x - 3.4x^2)$$

$$12) (5 - 2.6x^2 + 9.1x^4) - (-7.1 + 3.7x^2 + 1.1x^3) + (7.2 + 1.486x^4 - 2.6x)$$

$$13) (-8.317x^3 - 9.3x^4 + 6.3x) + (7.43x - 7.2x^3 + 1.7x^4) + (8.4x^4 + 3.2x - 6.7x^3)$$

$$14) (5.2r^3 - 6.3r^4 + 9.8r^2) - (6r^3 - 2.5r^4 - 4.61r^2) + (-2.7r^4 - 2.2r^3 + 2r^2)$$

$$15) (-6.6m^3 - 2.56m^2 + 1.7) + (9.2 - 10m^3 - 10m^2) + (-3.8m^2 + 5.7 + 4.6m^3)$$

$$16) (-8.76v^2 - 6.83v^3 + 8.4) - (-1.5 - 6.5v^3 - 4.9v^2) - (-9.2 + 1.96v^3 - v^2)$$

$$17) (-1.3b^3 + 1.3 - 2.5b^4) + (-1.2b^3 - 6.6 - 7b) - (1.9b^3 - 9.6 - 1.9b)$$

$$18) (-1.3n - 6.2n^3 - 1.8) + (-2.9n^4 - 8.5 + 8.3n) + (-6.9n^3 - 3.3n - 7.6n^4)$$

$$19) (9.3n^4 + 6.1 + 6.22n^3) + (-7.5n^2 + 5.1 + 7.6n^4) + (-5.7n^4 + 8.9 - 9.8n^3)$$

$$20) (-5.5x^3 + 9 + 1.1x^4) + (0.1 - 6x^3 + 7x^4) + (6x - 1.1x^3 - 6.1)$$

$$21) (4.4p^4 - 7.5p^2 - 6.8p^3) - (-6.1p^3 + 4.74p - 3.3) + (-7p^2 - 2.9 + 7.8p)$$

$$22) (8.8x^4 - 8.529x^3 - 2.7x^2) - (6.7x^4 + 6.2 - 3.5x^3) - (-8.4x^2 + 5.3x^4 + 8.6)$$

$$23) (-6.9r^4 + 4.9r^2 + 3.1r^3) - (-5.8r^3 + 0.4r + 3.2r^4) - (-7r^4 + 6.919r^2 + 9.9)$$

$$24) (-3.1 + 1.9v^3 - 2.8v^4) + (9.4 + 1.9v^4 - 2.99v^3) + (7.5v^3 + 6.3 - 6.8v^4)$$

$$25) (-2.5b^3 + 0.81 - 6.3b^2) + (-5.9b^2 - 8.3b^3 - 3.5b^4) + (8.9b^2 + 1.7b - 9.3b^3)$$

$$26) (5.2 + 6.3a^3 + 3.1a) - (8.5 + 2.7a^3 + 1.7a) + (6.8a^3 - 5.8a - 4.1)$$

$$27) (-6.6 - 9.4n^2 + 9.5n) - (-4.4n^2 + 2.9 - 4.7n) + (-3.7n + 6.9n^2 + 2.6)$$

$$28) (-2.7n^2 + 9n^3 + 3.5n) - (3.2n - 4.8 + 9.8n^2) + (-9.6 + 1.7n^2 + 3.9n^3)$$

$$29) (2.6x - 8.8 - 8.4x^3) + (4x + 2.28x^4 - 4.1) - (-0.2x^3 + 8.6x^4 + 9.7)$$

$$30) (7.9p^4 - 5.9 + 3.742p^3) - (5.7p^4 - 3.3p^2 + 8.5p^3) + (-1.6 - 5.3p^2 - 6.7p^4)$$

Answers to Polynomials - single variable - decimals

- 1) $19.3n^3 + 5.8n - 5.5$ 2) $-3.96n^4 - 0.4n^3 + 12.8$
3) $9.3a^4 + 8.5a^3 - 10.175a^2 - 3.3a - 0.1$ 4) $-6.1x^2 + 7.43x - 0.8$
5) $20.6p^3 - 6.2p - 9.5$ 6) $8.8m^4 - 16.7m^3 + m - 10$
7) $-2.2r^4 - 0.4r^2 - 6.109r + 16.3$ 8) $-4.74b^3 - 21.6b^2 - 11.5b + 8.5$
9) $-3.19a^4 + 5.37a^3 + 13.7a^2 + 8.2a - 12.2$ 10) $5.57n^4 + 3.5n^2 + 5.6n + 1.386$
11) $6x^3 + 8x^2 - 8.536x - 15.3$ 12) $10.586x^4 - 1.1x^3 - 6.3x^2 - 2.6x + 19.3$
13) $0.8x^4 - 22.217x^3 + 16.93x$ 14) $-6.5r^4 - 3r^3 + 16.41r^2$ 15) $-12m^3 - 16.36m^2 + 16.6$
16) $-2.29v^3 - 2.86v^2 + 19.1$ 17) $-2.5b^4 - 4.4b^3 - 5.1b + 4.3$
18) $-10.5n^4 - 13.1n^3 + 3.7n - 10.3$ 19) $11.2n^4 - 3.58n^3 - 7.5n^2 + 20.1$
20) $8.1x^4 - 12.6x^3 + 6x + 3$ 21) $4.4p^4 - 0.7p^3 - 14.5p^2 + 3.06p + 0.4$
22) $-3.2x^4 - 5.029x^3 + 5.7x^2 - 14.8$ 23) $-3.1r^4 + 8.9r^3 - 2.019r^2 - 0.4r - 9.9$
24) $-7.7v^4 + 6.41v^3 + 12.6$ 25) $-3.5b^4 - 20.1b^3 - 3.3b^2 + 1.7b + 0.81$
26) $10.4a^3 - 4.4a - 7.4$ 27) $1.9n^2 + 10.5n - 6.9$
28) $12.9n^3 - 10.8n^2 + 0.3n - 4.8$ 29) $-6.32x^4 - 8.2x^3 + 6.6x - 22.6$
30) $-4.5p^4 - 4.758p^3 - 2p^2 - 7.5$