

Adding & Subtracting Like Terms (with brackets)

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Simplify each difference.

1) $8b - 3b^4 + b - b^4$

2) $-3m^2 - 4m - 6m + 2m^2$

3) $-8r^3 + 4r^2 - 5r^2 - r^3$

4) $-6n^2 - 8n + 6n^2 - 8n$

5) $x^3 - 3x + 8x^3 - 4x$

6) $4n^4 - 8n^2 - 4n^2 + 6n^4$

7) $(m^3 - 6m) - (-3m^3 - 6m)$

8) $(-1 - 8n^3) - (7 - 3n^3)$

9) $(8x^3 - 6x^2) - (4x^3 + 8x^2)$

10) $(4 - 6b^3) - (7b^3 - 3)$

11) $(4p^2 - 2p) - (-8p^2 + p)$

12) $(-2v^4 - v^2) - (2v^2 + 4v^4)$

Simplify each expression.

13) $(4x^3 - 1) + (-4x^4 - 2x^3 + 4)$

14) $(-2a - a^2) - (-a + 7a^2 + 6)$

15) $(-3n^2 - 6n^4) - (2n^4 + 6n^2 - 3n^3)$

16) $(-6 - b^3) + (-7 - 2b^3 + 2b^4)$

17) $(8v^2 - 5v^3) + (3v^2 - 6v^3 + 8v^4)$

18) $(n^2 - 5n^4) - (6n^3 - 6n^2 - 8n^4)$

19) $(-8x^2y^2 + 5x^4y^3) + (xy^4 - 2x^2y^3) - (-5x^4y^3 - 8x^2y^3)$

$$20) (3x^2y^2 - 6x^3) + (7x^3 - 8x) + (3 + 4x^3)$$

$$21) (7x^3y^2 + 2x^4) - (-7x^4 - 3y^2) + (3y^2 - 4x^3y^2)$$

$$22) (-8x^4y^4 - 6x^3y^4) - (3x^4y^4 + 6y^4) - (-6x^3y^4 - 5x^4y^4)$$

$$23) (-v^4 + 5u^2v) - (-8uv^2 - 6v^4) - (-2v^4 - 3uv^2)$$

$$24) (-6x^4y^4 - 4x^4y^3) + (-2y^4 + 2x^4y^4) - (3x^4y^4 - 6x^3)$$

Answers to Adding & Subtracting Like Terms (with brackets) (ID: 1)

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|-------------------------------|--|---|------------------------|
| 1) $-4b^4 + 9b$ | 2) $-m^2 - 10m$ | 3) $-9r^3 - r^2$ | 4) $-16n$ |
| 5) $9x^3 - 7x$ | 6) $10n^4 - 12n^2$ | 7) $4m^3$ | 8) $-5n^3 - 8$ |
| 9) $4x^3 - 14x^2$ | 10) $-13b^3 + 7$ | 11) $12p^2 - 3p$ | 12) $-6v^4 - 3v^2$ |
| 13) $-4x^4 + 2x^3 + 3$ | 14) $-8a^2 - a - 6$ | 15) $-8n^4 + 3n^3 - 9n^2$ | 16) $2b^4 - 3b^3 - 13$ |
| 17) $8v^4 - 11v^3 + 11v^2$ | 18) $3n^4 - 6n^3 + 7n^2$ | 19) $10x^4y^3 + xy^4 + 6x^2y^3 - 8x^2y^2$ | |
| 20) $3x^2y^2 + 5x^3 - 8x + 3$ | 21) $3x^3y^2 + 9x^4 + 6y^2$ | 22) $-6x^4y^4 - 6y^4$ | |
| 23) $7v^4 + 5u^2v + 11uv^2$ | 24) $-7x^4y^4 - 4x^4y^3 - 2y^4 + 6x^3$ | | |