

Adding and Subtracting Polynomials

Add or subtract the following polynomials. Write your answer in descending order.

1. $3m^3 + 8m^3 - 3 + m^3 - 2m^2$ _____

2. $2pg - p^5 - 12pg + 5g - 6p^5$ _____

3. $(3k^2 - 2k + 7) + (k - 2)$ _____

4. $(5x^2 - 2x + 3y) + (6x^2 + 5x + 6y)$ _____

5. $(-r^2 + 8pr - p) - (-12r^2 - 2pr + 8p)$ _____

6. $(un - n^2 + 2un^3) - (3un^3 + n^2 + 4un)$ _____

7. $(11hz^3 + 3hz^2 + 8hz) + (9hz^3 + hz^2 - 3hz)$ _____

8. $(ab^2 + 13b - 4a) + (3ab^2 + a + 7b)$ _____

9. $(4x^3 - x^2 + 4x) + (x^3 - x^2 - 4x)$ _____

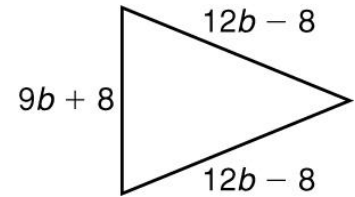
10. $(2v^5 - 3v^4 - 8) - (3v^5 + 2v^4 - 8)$ _____

11. $(4x^3 + 2x - 1) + (6x^2 - 7x + 9)$ _____

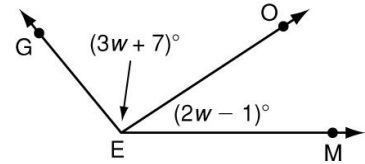
12. $(2x^2 - 3x - 5) - (4x^2 + 8x - 2)$ _____

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13. Tony is making a banner in the shape of a triangle. He wants to line the banner with a decorative border. How long will the boarder be?



14. Write a polynomial that represents the difference between the measures of angle GEO and angle OEM.



15. Becky is building an enclosure for her rabbits against the side of her house.

- a. Find the difference between the length and the width of the enclosure.

- b. Find the perimeter of the enclosure not including the side of the house.

- c. Find the perimeter of the enclosure.

