

LESSON

7-6

Practice B***Adding and Subtracting Polynomials*****Add or subtract.**

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

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

Add.

3.
$$\begin{array}{r} 3k^2 - 2k + 7 \\ + \quad k - 2 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5x^2 - 2x + 3y \\ + 6x^2 + 5x + 6y \\ \hline \end{array}$$

5.
$$\begin{array}{r} 11hz^3 + 3hz^2 + 8hz \\ + 9hz^3 + hz^2 - 3hz \\ \hline \end{array}$$

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

7. $(4x^3 - x^2 + 4x) + (x^3 - x^2 - 4x)$ _____

Subtract.

8.
$$\begin{array}{r} 12d^2 + 3dx + x \\ - (-4d^2 + 2dx - 8x) \\ \hline \end{array}$$

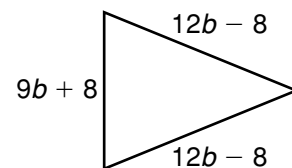
9.
$$\begin{array}{r} 2v^5 - 3v^4 - 8 \\ - (3v^5 + 2v^4 - 8) \\ \hline \end{array}$$

10.
$$\begin{array}{r} -y^4 + 6ay^2 - y + a \\ - (-6y^4 - 2ay^2 + y) \\ \hline \end{array}$$

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

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

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



14. Darnell and Stephanie have competing refreshment stand businesses. Darnell's profit can be modeled with the polynomial $c^2 + 8c - 100$, where c is the number of items sold. Stephanie's profit can be modeled with the polynomial $2c^2 - 7c - 200$.

a. Write a polynomial that represents the difference between Stephanie's profit and Darnell's profit.

b. Write a polynomial to show how much they can expect to earn if they decided to combine their businesses.