

Name: \_\_\_\_\_

## Adding and Subtracting Polynomials

State the additive inverse of each polynomial.

1)  $29$

2)  $-15x^2y$

3)  $3x + 2y$

4)  $-11x + 13y$

5)  $-3ab^2 + 5a^2b - b^3$

6)  $x^3 + 5x^2 - 3x - 11$

Add or Subtract

7)  $(2n + 7p) + (8n + 2p)$

8)  $(2a + 3b) + (5a - 2b)$

9)  $(5r - 3s) - (5r + 3s)$

10)  $(7n + 11m) - (4m + 2n)$

11)  $(5m + 3n) + 8m$

12)  $(n^2 + 5n + 3) + (2n^2 + 8n + 8)$

13)  $(3x - 7x + 4) - (2x^2 + 8x - 6)$

14)  $(5ax^2 + 3a^2x - 5x) + (2ax^2 - 5ax + 7x)$

15)  $(3mn^2 + 3mn - n^3) - (5mn^2 + n + 2n^3)$

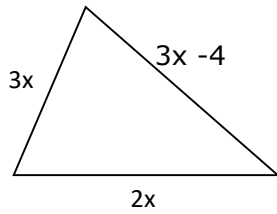
16)  $(\frac{1}{2}x^2 + \frac{5}{3}x - \frac{1}{4}) + (\frac{1}{2}x^2 - \frac{1}{3}x + \frac{1}{2})$

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

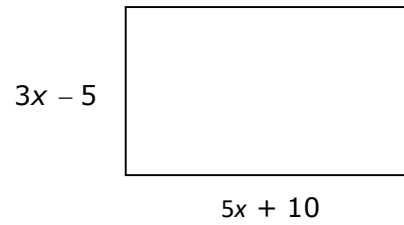
18)  $(x^3 - 3x^2y + 4xy^2 + y^3) - (7x^3 + x^2y - 9xy^2 + y^3)$

Write a polynomial expression for the perimeter of each polygon shown below.

19)

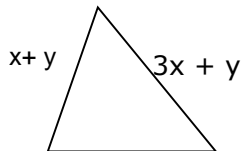


20)

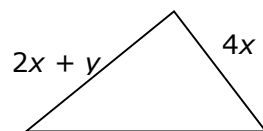


Find the measure of the third side of each triangle. P is the measure of the perimeter.

21)  $P = 3x + 3y$



22)  $P = 7x + 2y$



23)  $P = 11x^2 - 29x + 10$

