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

## **Adding and Subtracting Polynomials**

A) Add.

$$\begin{array}{c}
x - y \\
x + y
\end{array}$$

$$\begin{array}{rrr}
-w + 4 \\
2w - 3
\end{array}$$

4) 
$$x^{3} + 3x^{2} - 5x - 2$$
$$-x^{3} + 8x^{2} + 3x - 7$$

5) 
$$-\frac{1}{8}x^2 - \frac{1}{3}x + \frac{1}{5}$$

$$-x^3 + \frac{3}{8}x^2 - \frac{2}{5}$$

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

$$-\frac{1}{8}x^2 - \frac{1}{3}x + \frac{1}{5}$$
6)
$$\frac{-3x^4}{(+)} + 2x^2 - x + 5$$

$$\frac{(+)}{5x - 7}$$

B) Subtract

7) 
$$x^{2} - 3x + 7$$

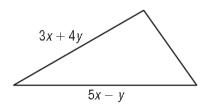
$$-2x^{2} - 5x + 2$$

9) 
$$4x + 3$$
  
 $2x - 6$ 

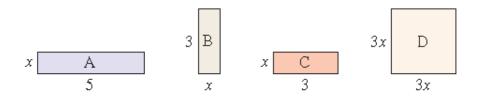
10) 
$$5x + 2$$
  
 $4x - 3$ 

## **Mathelpers**

- C) 11) Find the result in simplest form if you are subtracting  $(-2x^2 4x + 3)$  from  $4x^2 8x + 11$  then adding the result to  $7x^2 3x + 15$
- D) The measures of two sides of a triangle are given. If P is the perimeter, and P = 10x + 5y,



- 12) Find the measure of the third side.
- E) 13) Find the difference when  $32x^2 17x + 45$  is subtracted from the sum of  $23x^2 12x 7$  and  $-11x^2 + 12x + 7$
- F) Find the sum of the areas of the shaded rectangles:
  - 14)



15)

