## Combine Like Terms

$$n^5 - 3n^2 + 6n - 10 + 7n^5 - 2n$$

$$8n^5 - 3n^2 + 4n - 10$$

## Add or Subtract Polynomials

$$(8x^2 - 9x + 17) + (3x^2 + 5x - 6)$$

$$3x^{2} + 5x - 6$$
  
 $8x^{2} - 9x + 17$   
 $11x^{2} - 4x + 11$ 

$$(8x^2 - 9x + 17) - (3x^2 + 5x - 6)$$

$$-3x^{2}-5x+6$$

$$8x^{2}-9x+17$$

$$5x^{2}-14x+23$$

## **Mixed Practice**

$$(10x + 6) - (-3x + 20) + 3x - 20$$

$$|0x + 6|$$

$$|3x - 14|$$

$$(y^{2} + 3y - 12) - (-8y^{2} + 5y - 4) + 8y^{2} - 5y + 4$$

$$y^{2} + 3y - 12$$

$$9y^{2} - 2y - 8$$

$$\frac{4n^3 - 9n + 18 + 7n^3 - 6n + 5}{11n^3 - 15n + 23}$$

$$(2x^{3} - 6x - 10) - (7x^{2} - 6x + 8)$$

$$-7x^{2} + 6x - 8$$

$$2x^{3} - 6x - 10$$

$$7x^{3} - 7x^{2} - 18$$

9)

$$7-9a-(4a+20)+15a-6$$
 $7-9a-(4a+20)+15a-6$ 
 $-13a+15a-13-6$ 
 $2a-19$ 

$$\frac{6}{(y^{3}-6y+13)-(-7y^{3}+5y)} + 7y^{3}-5y$$

$$\frac{y^{3}-6y+13}{7y^{3}-5y}$$

$$\frac{8y^{3}-11y+13}{}$$

5)  

$$7 - 9a - (4a + 20) + 15a - 6$$

$$7(k^{3} + 6k - 10) + (7k^{3} + 4k^{2} - k - 8)$$

$$7k^{3} + 4k^{2} - k - 8$$

$$-13a + 15a - 13 - 6$$

$$8k^{3} + 4k^{2} + 5k - 18$$

$$(2x^{5} - 3x^{4} - 9x) - (19x^{4} - 7x^{5} - 2x + 4)$$

$$-19x^{4} + 7x^{5} + 2x - 4$$

$$2...5 \quad 3 \quad 4 \quad 0$$

$$\frac{2x^{5}-3x^{4}-9x}{7x^{5}-19x^{4}+2x-4}$$

$$9x^{5}-22x^{4}-7x-4$$

$$(6y^{3} - 8y + 13) - (-2y^{3} + y - 7)$$

$$+ 2y^{3} - y + 7$$

$$6y^{3} - 8y + 13$$

$$8y^{3} - 9y + 20$$

Subtract 
$$(9y^2 - 5y + 7)$$
 from  $6y^2 + 12y - 10$ 

$$6y^{2}+12y-10-(9y^{2}-5y+7)$$

$$-9y^{2}+5y-7$$

$$6y^{2}+12y-10$$

$$-3y^{2}+17y-17$$

Subtract 
$$\left(-10y^2 + 4y - 16\right)$$
 from  $2y^3 + 15y^2 - 20$ 

$$\frac{2y^{3} + 15y^{2} - 20 - (-10y^{2} + 4y - 16)}{+10y^{2} - 4y + 16}$$

$$\frac{2y^{3} + 15y^{2} - 20}{2y^{3} + 25y^{2} - 4y - 4}$$