

Combining Like Terms & Evaluation Remediation Practice

Directions: Simplify each expression first, check your answers, and THEN evaluate the expression using the values given.

Name: Key

1. Simplify

$$\underline{-6} - \underline{2y^2} - \underline{3} + \underline{3y} - \underline{2y^2} + \underline{4y} + \underline{6y^2}$$

$$2y^2 + 7y - 9$$

2. Simplify

$$\underline{7x} + \underline{1} + \underline{7} - \underline{4x} + \underline{4y^2} + \underline{2x} - \underline{4y^2}$$

$$5x + 8$$

3. Simplify

$$\underline{2} - \underline{3x} + \underline{7x} - \underline{x} + \underline{2x^2} + \underline{7} - \underline{5}$$

$$2x^2 + 3x + 4$$

4. Simplify

$$\underline{-4y^3} - \underline{2y^3} + \underline{2y} + \underline{4x} - \underline{7x} + \underline{4x} - \underline{4y}$$

$$x - 2y$$

5. Simplify

$$\underline{2} - \underline{4y} - \underline{7y^2} + \underline{5y^2} + \underline{5} + \underline{4y} - \underline{2y}$$

$$-2y^2 - 2y + 7$$

6. Simplify

$$\underline{-7} - \underline{y^3} - \underline{7y^3} - \underline{4x^2} + \underline{5} - \underline{2x^2} + \underline{4y^3}$$

$$-4y^3 - 6x^2 - 2$$

7. Simplify

$$\underline{y} - \underline{5y} - \underline{7x^3} - \underline{2} - \underline{1} + \underline{4x^3} - \underline{y}$$

$$-3x^3 - 6y$$

Evaluate if $y = -2$

$$2(-2)^2 + 7(-2) - 9$$

$$2(4) - 14 - 9$$

$$8 - 14 - 9$$

$$\boxed{-15}$$

Evaluate if $x = -3$ and $y = -2$

$$5(-3) + 8$$

$$-15 + 8$$

$$\boxed{-7}$$

Evaluate if $x = -4$

$$2(-4)^2 + 3(-4) + 4$$

$$2(16) - 12 + 4$$

$$32 - 12 + 4$$

$$20 + 4$$

$$\boxed{24}$$

Evaluate if $x = -1$ and $y = -3$

$$-1 - 2(-3)$$

$$-1 + 6$$

$$\boxed{5}$$

Evaluate if $y = -2$

$$-2(-2)^2 - 2(-2) + 7$$

$$-2(4) + 4 + 7$$

$$-8 + 4 + 7$$

$$\boxed{3}$$

Evaluate if $x = -2$ and $y = -1$

$$-4(-1)^3 - 6(-2)^2 - 2$$

$$-4(1) - 6(4) - 2$$

$$4 - 24 - 2$$

$$\boxed{-22}$$

Evaluate if $x = -3$ and $y = -2$

$$-3(-3)^3 - 6(-2)$$

$$-3(-27) + 12$$

$$81 + 12$$

$$\boxed{93}$$