

Algebra 1: Ch. 9 Review

1. State the degree of each term.

$$4x^5y^3 \quad 5+3 = \boxed{8}$$

2. Classify the expression (monomial, binomial, trinomial, polynomial, not a polynomial). Then state the degree of the polynomial.

$$8x^3 - 2xyz \quad \boxed{\text{binomial}; 3}$$

3. Write the polynomial in standard form. Then classify by its degree and number of terms.

$$2xy - 7x^2y + 6x^4 \quad \boxed{6x^4 - 7x^2y + 2xy; \text{trinomial}; 4}$$

4. Evaluate. * Where $y = -2$ (sorry, I left that out.) *

$$y^5 - 2y^3 - 7 \quad (-2)^5 - 2(-2)^3 - 7 = -32 + 16 - 7 = \boxed{-23}$$

5. Add.

$$\begin{array}{r} 3m + 4 \\ 7m + 2 \\ + 9m - 12 \\ \hline 19m - 6 \end{array}$$

6. Subtract.

$$\begin{array}{r} 5a + 3 \\ - (2a - 5) \\ \hline \end{array}$$

$$\begin{array}{r} 5a + 3 \\ - 2a + 5 \\ \hline 3a + 8 \end{array}$$

7. Add.

$$(5x + y) + (4x + 2y)$$

$$\begin{array}{r} 5x + y \\ + 4x + 2y \\ \hline 9x + 3y \end{array}$$

8. Subtract.

$$(6x + y - 7) - (5x - y + 7)$$

$$\begin{array}{r} 6x + y - 7 \\ - (5x - y + 7) \\ \hline \end{array}$$

$$\begin{array}{r} 6x + y - 7 \\ - 5x + y - 7 \\ \hline x + 2y - 14 \end{array}$$

9. Simplify.

$$(4x - 2y + 8) + (3x + 9y - 4) = 4x + 3x - 2y + 9y + 8 - 4 = \boxed{7x + 7y + 4}$$

10. Multiply.

$$\begin{array}{r} 3x + 4 \\ \times 2x + 1 \\ \hline 3x + 4 \\ + 6x^2 + 8x + 0 \\ \hline 6x^2 + 11x + 4 \end{array}$$

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