

Algebra 2 Units #1 - 3 Review

Unit 1

1. Fully simplify and write in standard form.

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

$$10x^2 - 6x + 20 - 6x - 12x^2 + 6$$

$$\boxed{-2x^2 - 12x + 26}$$



2. Find the average rate of change for the function

$$f(x) = 2x^2 + 5 \text{ along the interval } [-2, 3]$$

$$\boxed{(-2, 13)}$$

both x's

$$\boxed{(3, 23)}$$

$$y = 2(-2)^2 + 5 = 8 + 5 = 13$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{23 - 13}{3 - (-2)} = \frac{10}{5} = \boxed{2}$$

$$y = 2(3)^2 + 5$$

$$y = 2(9) + 5$$

$$y = 18 + 5$$

$$y = 23$$

3. Simplify $4x^3y^4z(5xy^2z^3)$

$$20x^4y^6z^4$$

4. Write the function in standard form. Then give the degree, leading coefficient, and constant term.

$$f(x) = 8x^3 + 7x^5 - 3x + 4 + x^2$$

$$f(x) = 7x^5 + 8x^3 + x^2 - 3x + 4$$

$$\text{Deg: } 5$$

$$\text{L.C: } 7$$

$$\text{Constant: } 4$$

Alg 2b Unit 10 Review Answers

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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