

14. Simplify:

$$\frac{2a^2b^4}{a^3b^2} \cdot \left(\frac{2a^2b}{3a^4b^5}\right)^{-2}$$

A. $\frac{8}{9a^5b^6}$

C. $3a^3b^{10}$

B. $\frac{9a^3b^{10}}{2}$

D. $9a^3b^{10}$

15. Judy had \$35 in her savings account in January. By November she had \$2500 in her account. What is Judy's rate of change between January and November?

A. \$253.50 per month

C. \$ 211.25 per month

B. \$ 246.50 per month

D. None of the Above

16. Simplify: $(3x^4 + 3x^2 - x + 5) - 3(x^4 + x^3 - 2x^2 - 6)$

A. $6x^4 + 3x^3 + 5x^2 - x - 13$

C. $3x^4 - 3x^3 + 9x^2 - x + 23$

B. $3x^3 + 3x^2 - x - 13$

D. $-3x^3 + 9x^2 - x + 23$

17. Which is not a related fact of the equation: $x - 4 = -12$

A. $x - 12 = -4$

C. $x = -12 + 4$

B. $x + 12 = 4$

D. $12 + x = 4$

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