

ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

a. $2x^2 - 3xy$
 b. $8x^2 - 11xy$
 c. $2x^2 - 3xy + 2y$
 d. $8x^2 - 8xy + 2y^2$

2. Which inequality best represents the graph?

a. $y < \frac{2}{3}x + 1$
 b. $y \leq \frac{2}{3}x + 1$
 c. $y \geq \frac{2}{3}x + 1$
 d. $y < -\frac{3}{2}x + 1$



3. Find the product.

$$(5x - 3y)(6x + y)$$

a. $30x^2 + 23xy + 3y^2$
 b. $30x^2 - 13xy - 3y^2$
 c. $35x - xy - 4y^2$
 d. $15x^2 - 23xy - 3y^2$

4. Jeffrey bought a collectable baseball card for \$12. If the value of the card appreciated by 9.4% each year, how much will the card be worth in 7 years?

a. \$22.51
 b. \$12.80
 c. \$1,241.06
 d. \$39.27

5. What property is represented below?

$$6 \cdot (3 \cdot 2) = (3 \cdot 2) \cdot 6$$

a. commutative property
 b. identity property
 c. inverse property
 d. associative property

6. Evaluate the expression when $x = 2$ and $y = -3$.

$$3y^2 - 2(5x + 3) - 1$$

a. 0
 b. -3
 c. 10
 d. -4

7. Find the roots of the quadratic function.

$$f(x) = 6x^2 - 5x - 2$$

a. $x = 6; x = -2$
 b. $x = \frac{5 \pm \sqrt{13}}{2}$
 c. $x = 1 \pm \sqrt{73}$
 d. $x = \frac{5 \pm \sqrt{73}}{12}$

8. Find the solution to the system of linear equations below.

$$\begin{aligned} 6x - 5y &= 1 \\ y &= 2x - 1 \end{aligned}$$

a. (-1, 3)
 b. (1, 1)
 c. (1, 2)
 d. (0, 2)

Algebra 1 Lesson 7 6 Practice Answers

Chao Zhang



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web jan 1 2016 solid phase extraction spe is a sample preparation method that is practised on numerous application fields due to its many advantages compared to other traditional methods spe was invented as an alternative to liquid liquid extraction and eliminated multiple disadvantages such as usage of large