Name:_____ Date:_____ Period:____

ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

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

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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. $112.80
c. $1,241.06
d. $39.27

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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.

$$6x - 5y = 1$$
$$y = 2x - 1$$

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

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Alan Axelrod,Walton Rawls,Harry Oster,James Holtje

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