# ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

I. 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.  $y \le \frac{3}{2}x + 1$
- C.  $y \ge \frac{2}{3}x + 1$
- 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
- Ь. \$112.80
- 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. O
- Ь. -3
- c. 10
- d. -4

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)
- Ь. (1, 1)
- c. (l, 2)
- d. (0, 2)

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**Patrick Vollmar** 

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