

# 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)

# Final Exam Study Guide And Answers Algebra

**United States Air Force Academy**



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