

# Practice Test -Chapter 3

Name\_\_\_\_\_

Date \_\_\_\_\_

1. Find  $\sqrt{-28}$ .

**Solve the equation.**

2.  $x^2 = 25$

3.  $x^2 - 17x = -72$

4.  $2x^2 + 4x + 4 = 0$

**Evaluate the expression. Write your answer in standard form.**

5.  $(8 + 9i) + (-5 + 4i)$

6.  $(8 - 9i)(-5 + 6i)$

7. Solve  $x^2 + 4x = -13$  using the Quadratic Formula.

8. Solve the system.

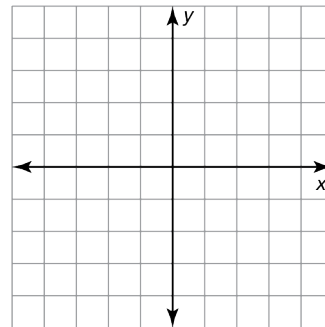
$$-x^2 - 6x - y = 13$$

$$3x^2 + 18x - y = -19$$

9. Graph the system of quadratic inequalities.

$$y < x^2 + 4$$

$$y \geq 4x^2 - 3x - 2$$



10. Graph the solution of  $x^2 + 10x + 16 \geq 0$ .

