

Test Retake Review on Quadratic Functions

Name: \_\_\_\_\_

SHOW WORK

Graph each equation.

7.  $y = 3x^2$

8.  $y = (x + 3)^2 + 1$

9.  $y = 2x^2 + 4$

10.  $y = \frac{1}{2}(x - 3)^2$

Factor each expression.

15.  $x^2 + 3x - 54$

16.  $x^2 + 10x + 24$

17.  $x^2 - 36$

18.  $x^2 - 9x - 36$

19.  $x^2 - 15x + 56$

20.  $25x^2 + 70x + 49$

21.  $7x^2 - 20x - 3$

22.  $5x^2 + 23x - 10$

Lesson 5-5 Solve each equation by factoring, by taking square roots, or by graphing. When necessary, round your answer to the nearest hundredth.

27.  $x^2 + 4x - 1 = 0$

28.  $4x^2 - 100 = 0$

29.  $x^2 = -2x + 1$

30.  $x^2 - 9 = 0$

31.  $2x^2 + 4x = 70$

32.  $x^2 - 30 = 10$

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

34.  $x^2 + 3x + 2 = 0$