

SCORE

13

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

Class: \_\_\_\_\_

Hour: \_\_\_\_\_

## Algebra 1B Homework Check (9-5)

(Show all work on space provided and graph on a separate piece of graph paper)

(Please attach homework to this sheet and fill out the questions below.)

**Pg. 625: 2 - 14**

Solve each equation by graphing the related function.

2.  $x^2 - 4 = 0$

3.  $x^2 = 16$

4.  $-2x^2 - 6 = 0$

5.  $-x^2 + 12x - 36 = 0$

6.  $-x^2 = -9$

7.  $2x^2 = 3x^2 - 2x - 8$

8.  $x^2 - 6x + 9 = 0$

9.  $8x = -4x^2 - 4$

10.  $x^2 + 5x + 4 = 0$

11.  $x^2 + 2 = 0$

12.  $x^2 - 6x = 7$

13.  $x^2 + 5x = -8$

14. **Sports** A baseball coach uses a pitching machine to simulate pop flies during practice. The baseball is shot out of the pitching machine with a velocity of 80 feet per second. The quadratic function  $y = -16x^2 + 80x$  models the height of the baseball after  $x$  seconds. How long is the baseball in the air?