Name:			
mame.			

Date: \_\_\_\_\_

## Math 1050 PRACTICE Quiz (4.3-5.4)

1. Solve the following inequality and state the solution in interval notation.

$$3x^2 - x < 14$$

2. Solve the following inequality and state the solution in interval notation.

$$\frac{2}{x+3} \ge \frac{1}{x-5}$$

An appliance wholesaler finds the number $x$ appliances she can sell each week is related to the price $p$ by the equation $x=2150-p$ , $0 \le p \le 2150$ . What is the maximum revenue $R$ ? ( $R=xp$ ) <b>Justify your answer.</b>
$h(t) = -t^2 + 4t + 7$ represents the height of a ball, in meters, thrown vertically $t$ seconds after it was thrown. a) What will be the height of the ball at 3 sec?
b) After how many seconds does the ball reach its maximum height?
c) What is the height of the ball when it is at maximum height?