

Name: _____

Date: _____

Math 1050 PRACTICE Quiz#2 (4.3-5.4)

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

$$2x^2 + x \geq 3$$

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

$$\frac{3}{x+1} < \frac{4}{x-2}$$

3. An appliance wholesaler finds the number x appliances she can sell each week is related to the price p by the equation $x = 1500 - p$, $0 \leq p \leq 1500$. What is the maximum revenue R ? ($R = xp$) **Justify your answer.**

4. $h(t) = -t^2 + 3t + 3$ represents the height of an object, in meters, thrown vertically t seconds after it was thrown.

a) What will be the height of the object at 2 sec?

b) After how many seconds does the object reach its maximum height?

c) What is the height of the object when it is at maximum height?