5.135.2 Worksheet

Date Period___

Solve each equation by factoring.

1)
$$9x^2 = 24x - 12$$

$$2) \ \ 4 = -9x - 2x^2$$

Name_

3)
$$0 = -7x - 4x^2 + 2$$

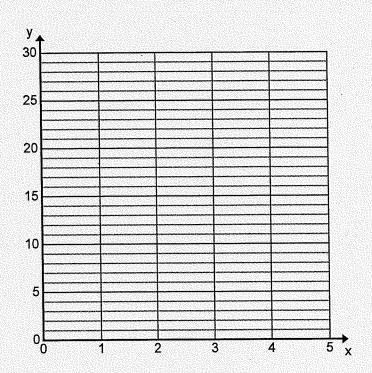
4)
$$6x^2 + 23x = -20$$

$$5) \ 2x^2 - 20 = 3x$$

6)
$$3 + 7x = -2x^2$$

The arc of a basketball which is thrown at the goal (but missed) is modeled by the equation $f(x)=-16x^2+34x+6$ where x is time in seconds.

Graph: (Accurately)



Round to the nearest hundredth.

How high does the ball get?_____

How long does it take to get that high?_____

How long is the ball in the air?_____

What is the height of the ball after 1 second?_____