

MTH 65 – Graded Homework 13

Due: March 7, 2011

Name _____

1. Solve each equation using the quadratic formula. Make sure that you completely simplify each solution.

a. Solve $x^2 + 4x - 6 = 0$.

b. Solve $x^2 - 3x + 8 = 0$.

2. A ball is thrown straight up from a rooftop. The distance between the ball and the ground (measured in feet) t seconds after the ball is thrown is given by the function $h(t) = -16t^2 + 20t + 300$. Determine when the ball is exactly 276 feet above the ground.

Hint: What is it that must equal 276 at that time?