

Unit 2: Quadratic Functions and Equations

1. A ball is thrown with a height modeled by $h(t) = -16t^2 + 40t + 5$.
 - a. What is the maximum height of the ball?
 - b. At what time does it hit the ground?
2. Rewrite $y = x^2 + 6x + 8$ in vertex form. Identify the vertex and axis of symmetry.