

# Modeling with Quadratic Equations

## Set 5-5b

The height of an object thrown straight up from the ground with a speed of 64 ft/sec is described by  $h(t) = -16t^2 + 64t$ .

- 1) *After one second, how high is the object?*
  
- 2) *After two seconds, how high is the object?*
  
- 3) *What is the object's maximum height?*
  
- 4) *How long is the object in the air?*
  
- 5) *Graph the function.*