

## Quadratic Equation Application #3

An object is launched from ground level at a rate of 40 feet per second. The equation for the object's height ( $h$ ) at time ( $t$ ) seconds after launch is  $h(t) = -16t^2 + 40t$ .

- A) What is the maximum height reached by the object?
- B) How long does it take for the object to reach its maximum height?
- C) How long does the object stay at or above 60 feet?
- D) How long does it take for the object to reach the ground?