

## Applications of a Quadratic Function

Given:

A ball is thrown into the air with an upward velocity of 48 ft/s. It's height  $h$  (in feet) after  $t$  seconds is given by the function  $h(t) = -16t^2 + 64t + 1$ .

a) What is the height of the ball after 1 second?.

$$h(t) = -16t^2 + 64t + 1$$

Set  $t = 1$

$$h(1) = -16(1)^2 + 64(1) + 1$$

$$h(1) = -16 + 64 + 1$$

$$h(1) = 49$$

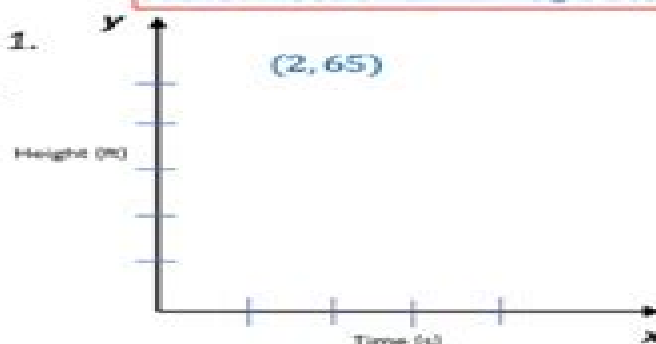
Answer: The height of the ball after 1 second is 49 feet.

b) How long will it take the ball to reach its maximum height.

Answer: It will take two seconds for the ball to reach its maximum height.

c) What is the balls maximum height.

Answer: The balls maximum height is 65 feet.



$$h(t) = -16t^2 + 64t + 1$$

$$h(t) = (-16t^2 + 64t) + 1$$

$$h(t) = -16(t^2 - 4t + 4) + 1 - 4(-16)$$

$$h(t) = -16(t^2 - 4t + 4) + 1 + 64$$

$$h(t) = -16(t - 2)^2 + 65$$

A badminton player hits a shuttlecock into the air. The function  $h(t) = -16t^2 + 96t + 1$  gives the height of the shuttlecock (in feet) at time  $t$ (in seconds).

a) What is the height of the shuttlecock after 2 seconds?.

b) How long will it take the shuttlecock to reach its maximum height.

c) What is the shuttlecock maximum height.

$$ax^2 + bx + c = 0$$

Standard Form of Quadratic Equation

# Applications Of Quadratic Functions No Horsing Around Answers

**Wolfgang Guggemos**



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