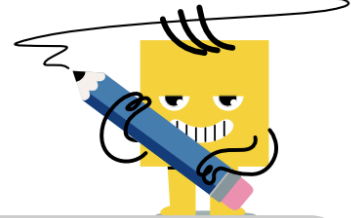




Quadratic Equation Word Problem To Optimization (y) - Height over Time



1 Given this equation for the height of a rocket as a function of time, what is its maximum height?

$$h(t) = -2t^2 + 4t + 11$$

A $h = 13m$

B $h = 9m$

C $h = 14m$

2 Given this equation for the height of a ball thrown from a window, what is its maximum height?

$$h(t) = -8t^2 + 5t + 2$$

A $h = 0.219m$

B $h = 2.219m$

C $h = 2.781m$

3 Given this equation for the height of a soccer ball kicked from ground, what is its maximum height?

$$h(t) = -5t^2 + 10t + 8$$

A $h = 13m$

B $h = 12m$

C $h = 18m$

4 Given this equation for the height of a ball thrown from a window, what is its maximum height?

$$h(t) = -4t^2 + 2t + 10$$

A $h = 13.25m$

B $h = 10.25m$

C $h = 7.25m$

5 Given this equation for the height of a rocket as a function of time, what is its maximum height?

$$h(t) = -3t^2 + 7t + 2$$

A $h = 6.083m$

B $h = 1.083m$

C $h = 8.083m$

6 Given this equation for the height of a rocket as a function of time, what is its maximum height?

$$h(t) = -10t^2 + 10t + 11$$

A $h = 9.5m$

B $h = 13.5m$

C $h = 10.5m$

7 Given this equation for the height of a rocket as a function of time, what is its maximum height?

$$h(t) = -7t^2 + 7t + 10$$

A $h = 11.75m$

B $h = 6.75m$

8 Given this equation for the height of a rocket as a function of time, what is its maximum height?

$$h(t) = -10t^2 + 4t + 6$$

A $h = 3.4m$

B $h = 6.4m$

C $h = 8.4m$