



Quadratic Equation Word Problem To Solution - Height over Time

1 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -5t^2 + 4t + 9$$

A $t = 1.8s$

B $t = 2.8s$

C $t = 0.8s$

2 Given this equation for the height of a ball thrown from a window, when does it land?

$$h(t) = -6t^2 + 9t + 11$$

A $t = 2.048s$

B $t = 2.298s$

C $t = 3.798s$

3 Given this equation for the height of a rocket as a function of time, when does it land?

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

A $t = 7.622s$

B $t = 4.122s$

C $t = 5.372s$

4 Given this equation for the height of a ball thrown from a window, when does it land?

$$h(t) = -10t^2 + 11t + 3$$

A $t = 2.076s$

B $t = 1.326s$

C $t = 2.576s$

5 Given this equation for the height of a rocket as a function of time, when does it land?

$$h(t) = -10t^2 + 5t + 4$$

A $t = 1.57s$

B $t = 0.68s$

C $t = 0.93s$

6 Given this equation for the height of a ball thrown from a window, when does it land?

$$h(t) = -9t^2 + 9t + 11$$

A $t = 3.213s$

B $t = 1.963s$

C $t = 1.713s$

7 Given this equation for the height of a soccer ball kicked from ground, when does it land?

$$h(t) = -3t^2 + 11t + 4$$

A $t = 3.75s$

B $t = 1.75s$

C $t = 4s$

8 Given this equation for the height of a rocket as a function of time, when does it land?

$$h(t) = -11t^2 + 8t + 5$$

A $t = 0.37s$

B $t = 1.88s$

C $t = 1.13s$