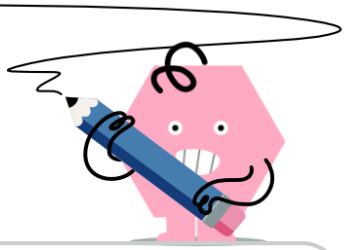
Name

Quadratic Equation Word Problem To Solution - Height over Ground



1 Given this equation for the height of a long jumper as a function of distance from the line, where do they land?

$$h(x) = -11x^2 + 2x + 6$$

A	B
$x = 0.835m$	$x = 5.835m$

2 Given this equation for the height of a water jet as a function of distance from the fountain, where does it land?

$$h(x) = -10x^2 + 9x + 5$$

A	B
$x = 6.288m$	$x = 3.712m$
C	
$x = 1.288m$	

3 Given this equation for the height of a water jet as a function of distance from the fountain, where does it land?

$$h(x) = -6x^2 + 3x + 3$$

A	B	C
$x = 1m$	$x = 6m$	$x = 2m$

4 Given this equation for the height of a long jumper as a function of distance from the line, where do they land?

$$h(x) = -2x^2 + 5x + 5$$

A	B
$x = 3.266m$	$x = 7.266m$

5 Given this equation for the height of a water jet as a function of distance from the fountain, where does it land?

$$h(x) = -11x^2 + 8x + 3$$

A	B	C
$x = 1m$	$x = 2m$	$x = 0m$

6 Given this equation for the height of a long jumper as a function of distance from the line, where do they land?

$$h(x) = -10x^2 + 10x + 5$$

A	B
$x = 1.366m$	$x = 0.366m$

7 Given this equation for the height of a long jumper as a function of distance from the line, where do they land?

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

A	B
$x = 4.897m$	$x = 1.103m$
C	
$x = 1.897m$	

8 Given this equation for the height of a long jumper as a function of distance from the line, where do they land?

$$h(x) = -9x^2 + 8x + 6$$

A	B
$x = 2.626m$	$x = 1.374m$