C11 - 4.8 - Max Height/Total Distance

The height vs distance of a bow and arrow shot off a cliff is represented by following equation:

$$h = -2d^2 + 8d + 10$$

What is the maximum height and the distance it took to get there?   Draw on a graph.

What was the height of the cliff?

How far did the arrow go before it hit the ground?   Find Domain and Range

At what distance is the height 16 m? At what distance is the height greater than 0 16m?

C11 - 4.8 - Max Height/Total Distance

The height vs distance of a bow and arrow shot off a cliff is represented by following equation:

$$h = -5d^2 + 10d + 1$$

Draw on a graph.

What is the maximum height and the distance it took to get there?

What was the height of the cliff?

How far did the arrow go before it hit the ground?

Find Domain and Range

C11 - 4.8 - Max Height/Total time

The height vs time of a bow and arrow shot straight up is represented by following equation:

$$h = -5t^2 + 20t + 2$$

Draw on a graph.   What is the maximum height and the time it took to get there?

What was the height of the cliff?

How long did the arrow fly before it hit the ground?   Find Domain and Range