

# Example 7: $h = 16t^2 + 72t + 520$

Suppose a particular “star” is projected from a firework at a starting height of 520 feet with an initial upward velocity of 72 ft/sec.

The equation:

$$h = 16t^2 + 72t + 520$$

gives the star’s height  $h$  in feet at time  $t$  in seconds.

a) How long will it take for the star to reach its maximum height?

b) What is the maximum height?

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