Lesson 6-6

Applications

Set 6-6a

An object is thrown from the ground at a speed of 48 ft/sec, and is described by the function $h(t) = -16t^2 + 48t$, where t is time, in seconds and h is height, in feet.

1) *Graph this function.*

2) *What is the vertex and what does it mean?*

3) *What are the x-intercepts and what do they mean?*

4) *How high is the object after one second?*

5) *How long is the object in the air?*

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