

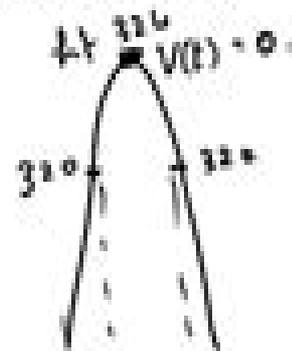
## 3.7.8

If a ball is thrown vertically upward with a velocity of 144 ft/s, then its height after  $t$  seconds is  $s = 144t - 16t^2$ .

(a) What is the maximum height reached by the ball?

(b) What is the velocity of the ball when it is 320 ft above the ground on its way up? (Consider up to be the positive direction.)

(c) What is the velocity of the ball when it is 320 ft above the ground on its way down?



$$a) V(t) = 0 \quad s'(t) = 0$$

$$144 - 16(2)t = 0$$

$$144 - 32t = 0; \quad t = \frac{144}{32} = 4.5 \text{ s.}$$

$$s(4.5) = 144(4.5) - 16(4.5)^2 = 324 \text{ ft}$$

$$\text{max height} = 324 \text{ ft}$$

b) way up, height 320 ft.

$$320 = 144t - 16t^2$$

$$16t^2 - 144t + 320 = 0$$

$$16(t^2 - 9t + 20) = 0 \Rightarrow t^2 - 9t + 20 = 0 \Rightarrow (t-5)(t-4)$$

# Derivatives Word Problems Solutions

**O García**



## **Derivatives Word Problems Solutions:**

## Unveiling the Magic of Words: A Review of "**Derivatives Word Problems Solutions**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Derivatives Word Problems Solutions**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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