

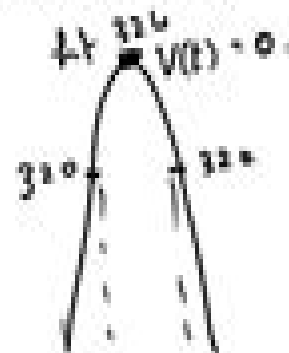
## 3.7.8

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?



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

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

$$144 - 32t = 0;$$

$$t = \frac{144}{32} = 4.5 \text{ s.}$$

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

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

b) way up, height 320 ft.

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

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

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

# Derivative Word Problems And Solutions

**Arturo Cuomo**



## **Derivative Word Problems And Solutions:**

## Whispering the Strategies of Language: An Psychological Journey through **Derivative Word Problems And Solutions**

In a digitally-driven earth wherever monitors reign great and quick interaction drowns out the subtleties of language, the profound strategies and mental nuances concealed within words frequently move unheard. Yet, nestled within the pages of **Derivative Word Problems And Solutions** a fascinating literary value pulsing with raw emotions, lies an extraordinary quest waiting to be undertaken. Penned by a skilled wordsmith, this charming opus invites viewers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within ab muscles material of each and every word. Within the mental depths of this moving review, we shall embark upon a honest exploration of the book is primary styles, dissect their captivating publishing type, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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