

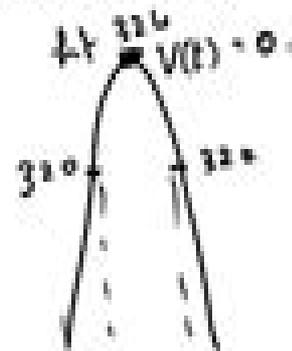
3.7.8

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

Rosina Ehmann



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