

5.11 Solving Optimization Problems

Calculus

Solutions

Practice

1. A particle is traveling along the x-axis and its position from the origin can be modeled by $x(t) = -\frac{2}{3}t^3 + t^2 + 12t + 1$ where x is meters and t is minutes on the interval.

a. At what time t during the interval $0 \leq t \leq 4$ is the particle furthest to the left? *min.*

$$\begin{aligned} V(t) &= -2t^2 + 2t + 12 \\ -2(t^2 - t - 6) &= 0 \\ -2(t-3)(t+2) &= 0 \\ t=3 \quad t=-2 \end{aligned}$$

$$\begin{aligned} x(0) &= 1 \\ x(3) &= 28 \\ x(4) &= 22.333 \end{aligned}$$

$$t=0$$

- b. On the same interval what is the particle's maximum speed?

$$\begin{aligned} a(t) &= -4t + 2 = 0 \\ -4t &= -2 \\ t &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} V(0) &= 12 \\ V(\frac{1}{2}) &= 12.5 \\ V(4) &= 4 \end{aligned}$$

$$12.5 \text{ meters/min}$$

2. Find the point on the graph of the function $f(x) = x^3$ that is closest to the point $(2, \frac{3}{2})$.

$$\begin{aligned} D &= \sqrt{(x-2)^2 + (x^3 - \frac{3}{2})^2} \\ \frac{dD}{dx} &= \frac{2(x-2) + 2(x^3 - \frac{3}{2})(3x^2)}{2\sqrt{(x-2)^2 + (x^3 - \frac{3}{2})^2}} = 0 \\ 4x^3 - 4 &= 0 \\ x &= 1 \end{aligned}$$

$$(1, 1)$$

3. A particle moves along the x-axis so that at any time t its position is $s(t) = \frac{2}{3}t^3 - 4t^2 + 7t - 5$ where s is inches and t is hours.

a. At what time t during the interval $0 \leq t \leq 6$ is the particle furthest to the right?

$$\begin{aligned} V(t) &= t^2 - 8t + 7 \\ (t-7)(t-1) &= 0 \\ t=7 \quad t=1 \end{aligned}$$

$$\begin{aligned} s(0) &= -5 \\ s(1) &= -1.667 \\ s(6) &= -35 \end{aligned}$$

$$t=1$$

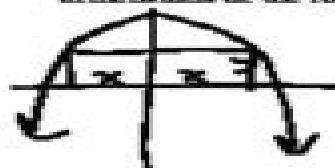
- b. On the same interval what is the particle's maximum speed?

$$\begin{aligned} a(t) &= 2t - 8 = 0 \\ t &= 4 \end{aligned}$$

$$\begin{aligned} V(0) &= 7 \\ V(4) &= -9 \\ V(6) &= -5 \end{aligned}$$

$$9 \text{ inches/hour}$$

4. A rectangle is formed with the base on the x-axis and the top corners on the function $y = 20 - x^2$. Find the dimensions of the rectangle with the largest area.



$$\begin{aligned} A &= (x+x) \cdot y \\ A &= 2x(20-x^2) \\ A &= 40x - 2x^3 \\ A' &= 40 - 6x^2 = 0 \end{aligned}$$

$$\begin{aligned} -6x^2 &= -40 \\ x^2 &= \frac{20}{3} \\ x &= \pm \sqrt{\frac{20}{3}} \end{aligned}$$

$$\text{width: } y = \frac{40}{3}$$

$$\text{Length: } 2x = 2\sqrt{\frac{20}{3}}$$

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