#### 5.11 Solving Optimization Problems

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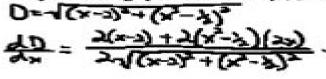
Solutions

Practice

- 1. A particle is traveling along the x-axis and it's position from the origin can be modeled by  $x(t) = -\frac{2}{3}t^2 + t^2 + t^3 + t^4 + t$ 12t + 1 where x is meters and t is minutes on the interval.
  - s. At what time t during the interval  $0 \le t \le 4$  is the particle furtheat to the off.

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

Find the point on the graph of the function f(x) = x<sup>3</sup> that is closest to the point (2, <sup>1</sup>/<sub>2</sub>).





- 3. A particle moves along the x-exis so that at any time t its position is  $s(t) = \frac{1}{2}t^2 4t^2 + 7t 5$  where s is inches and t is bours.
  - At what time t during the interval 0 ≤ t ≤ 6 is the particle furthest to the right?

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



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



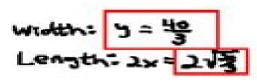
$$A = (x + x) \cdot y - 6x^{2} = -40$$

$$A = (x + x) \cdot y - 6x^{2} = -40$$

$$A = 4x(3x^{2} - 3x^{3}) \times = 25$$

$$A = 40x - 3x^{3} \times = 2\sqrt{2}$$

$$A' = 40 - 6x^{2} = 0$$



# **Laying The Foundation Ap Calculus Answer Key**

**LL Leslie** 

#### **Laying The Foundation Ap Calculus Answer Key:**

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