5.11 Solving Optimization Problems

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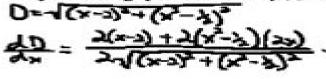
Solutions

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) = x³ that is closest to the point (2, ¹/₂).





- 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,



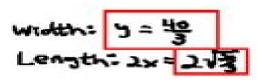
$$A = (x + x) \cdot y - 6x^{2} = -40$$

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

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

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

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



Laying The Foundation Ap Calculus Answer Key

Michael Brown

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