

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?

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

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

$$t = 1$$

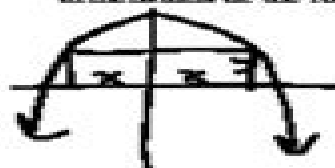
- b. On the same interval what is the particle's maximum speed?

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

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

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

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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Protecting America's Competitive Edge Act (S. 2198) United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions. Subcommittee on Education and Early Childhood Development, 2006 *Mathematics of the 19th Century* A.N. Kolmogorov, A.P. Yushkevich, 1998-03-24 The editors of the present series had originally intended to publish an integrated work on the history of mathematics in the nineteenth century passing systematically from one discipline to another in some natural order. Circumstances beyond their control, mainly difficulties in choosing authors, led to the abandonment of this plan by the time the second volume appeared. Instead of a unified monograph we now present to the reader a series of books intended to encompass all the mathematics of the nineteenth century but not in the order of the accepted classification of the component disciplines. In contrast to the first two books of *The Mathematics of the Nineteenth Century* which were divided into chapters, this third volume consists of four parts more in keeping with the nature of the publication. 1 We recall that the first book contained essays on the history of mathematical logic, algebra, number theory and probability, while the second covered the history of geometry and analytic function theory. In the present third volume the reader will find 1 An essay on the development of Chebyshev's theory of approximation of functions, later called constructive function theory, by S. N. Bernshtein. This highly original essay is due to the late N. I. Akhiezer. 1901-1980, the author of fundamental discoveries in this area. Akhiezer's text will no doubt attract attention not only from historians of mathematics but also from many specialists in constructive function theory. *The Encyclopaedia Britannica* Thomas Stewart Traill, 1853

Dissertation Fourth John Playfair, 1820 *The Industrialist*, 1894 **The Encyclopaedia Britannica**, 1842

Dissertations on the History of Metaphysical and Ethical Dugald Stewart, 1835 *The Encyclopaedia Britannica, Or Dictionary of Arts, Sciences, and General Literature*, 1853 The Study of Medicine John Mason Good, 2024-11-15 Reprint of the original first published in 1836 **Acta Numerica 1999: Volume 8** Arieh Iserles, 1999-07-22 Numerical analysis is

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