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1 - 2 Problems Optimization Problems
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ANSWERS WORKSHEET ON OPTIMIZATION

Work the following on notebook paper. Write a function for each problem, and justify your answers. Give all decimal answers correct to three decimal places.

1. Find two positive numbers such that their product is 192 and the sum of the first plus three times the

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Solve each optimization problem. 1) A

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A company has started selling a new type of smartphone at the price of \$ $110 - 0.05x$, where x is the number of smartphones manufactured per day. The parts for each smartphone cost \$50 and the labor and overhead for running the plant cost \$6000 per day. How many smartphones should the

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A company manufacture and sell per day
to maximize profit?

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WORKSHEET ON OPTIMIZATION
Steps for Solving Optimization

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Answers: 1) Read the problem. 2) Sketch a picture if possible. Label the picture, using variables for unknown quantities. 3) Write a function, expressing the quantity to be maximized or minimized as a function of one or more variables.

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~~PRECALCULUS WORKSHEET ON OPTIMIZATION~~ Steps for Solving ...

This lesson is designed to help students develop strategies for solving optimization problems. Such problems typically involve scenarios where limited resources must be used to greatest effect, as in, for example, the

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Answers of time and materials to maximize profit. • Before the lesson, students attempt the problem individually.

~~Optimization Problems: Boomerangs~~

Optimization Date _____ Period _____

Solve each optimization problem. You

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Answers

may use the provided box to sketch the problem setup and the provided graph to sketch the function of one variable to be minimized or maximized. 1) A supermarket employee wants to construct an open-top box from a 14 by 30 in piece of cardboard.

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~~Optimization Date Period Kuta~~

Let x and y be two positive numbers such that $x + 2y = 50$ and $(x+1)(y+2)$ is a maximum. Solution. We are going to fence in a rectangular field. If we look at the field from above the cost of the

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Answers are \$10/ft, the cost of the bottom is \$2/ft and the cost of the top is \$7/ft.

~~Calculus I Optimization (Practice Problems)~~

4. Write down all equations which are related to your problem or diagram.

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Clearly denote that equation which you are asked to maximize or minimize. Experience will show you that MOST optimization problems will begin with two equations. One equation is a "constraint" equation and the other is the "optimization" equation.

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~~Answers~~
Maximum/Minimum Problems

Log in here for access. Worksheet.

Print. Optimization Problems in

Calculus: Examples & Explanation.

Worksheet. 1. A cylindrical container
must hold 2L or $2,000 \text{ cm}^3$ of liquid.

Find the dimensions...

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1. Find the dimensions of a rectangle

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with perimeter 100 m whose area is as large as possible. 2. The rate (in mg carbon/m³/h) at which photosynthesis takes place for a species of phytoplankton is modeled by the function $P = 100I / (I^2 + I + 4)$ where I is the light intensity (measured in thousands of foot-candles).

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To solve an optimization problem, begin by drawing a picture and introducing variables. Find an equation relating the variables. Find a function of one variable to describe the quantity that is to be minimized or maximized. Look for critical points to locate local

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(a new Office 2013 feature); all the 'external' operations like Save, Print etc. are now in one place The chapter on charting is totally revised and updated – Excel 2013 differs greatly from earlier versions Includes many new end-of-chapter problems Most chapters have been edited to improve

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