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~~Fence Problems,
Cylinder, Volume of
Box, Minimum Distance
Norman Window~~

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in Calculus Section 4.7:
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Worksheet With

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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

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such that their product is 192 and the sum of the first plus three times the second is a minimum. 2.

~~Calc Worksheet on
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Solve each optimization
problem. 1) A company
has started selling a new
type of smartphone at the

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price of \$ 110 – 0.05.

x 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 company
manufacture and sell per
day to maximize profit?

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About This Quiz & Worksheet. This quiz will review what you know about optimization in math. Most questions will require you to find solutions for mathematics problems that involve optimization.

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**WORKSHEET ON
OPTIMIZATION** Steps
for Solving Optimization
Problems: 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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Problems
Worksheet With
Answers

allocation 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 may use the provided box to sketch the problem setup and

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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.

~~Optimization Date~~
~~Period Kuta~~

Let x and y be two

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positive numbers such
that $x + 2y = 50$ $x + 2y =$
50 and $(x+1)(y+2)$ $(x +$
 $1) (y + 2)$ 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 vertical sides are
\$10/ft, the cost of the
bottom is \$2/ft and the
cost of the top is \$7/ft.

Calculus I — Optimization

Page 20/33

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~~(Practice Problems)~~

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

or diagram. 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

Read Free Optimization the "optimization" equation. Worksheet With

Answers
Maximum/Minimum
Problems

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in Calculus: Examples &
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1. A cylindrical container
must hold 2L or 2,000
 cm^3 of liquid. Find the
dimensions...

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1. Find the dimensions of
a rectangle with
perimeter 100 m whose
area is as large as possible.

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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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quadratic applications
worksheet

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 extrema.

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