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Calc - Worksheet on Optimization

1. Find the dimensions of a rectangle 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 $P = 100I^2 + I + 4$

where I is the light intensity (measured in thousands of foot-

candles).

[Optimization Problems Worksheet With Answers](#)

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.

[Quiz & Worksheet - Optimization Problems in Calculus ...](#)

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

allocation of time and materials to maximize profit. • Before the lesson,

students attempt the problem individually.

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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 extrema.

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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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Optimization Date _____ Period _____ Solve each optimization problem.

You 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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Let x and y be two positive numbers such that $x + 2y = 50$ and $x + 2y = 50$

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

vertical sides are \$10/ft, the cost of the bottom is \$2/ft and the cost of

the top is \$7/ft.

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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 such that their product is 192 and the sum

of the first plus three times the second is a minimum. 2.

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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 the

"optimization" equation.

[Maximum/Minimum Problems](#)

Solve each optimization problem. 1) A company has started

selling a new type of smartphone at the price of \$. 110 ? 0.05.

xwhere x. is the number of smartphones manufactured per day.

The parts for each smartphone cost \$ 50 and the labor and