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Derivative Max/Min Word Problems

7) You operate a tour company with the following rates: \$200 per person

Your tour company accommodates 60 - 90 people.

If more than 60 people sign up, the rate drops *\$2 per person for each additional person* after 60....

If less than 60 people sign up, the tour is cancelled.

The cost of each tour is \$6000 plus \$32 per person.

a) How many people would maximize your profit?

b) What is your maximum profit?

Step 1: Transform above description into math equations:

The domain is [60, 90]

let p = # of people

Profit = Revenue − Cost

Cost = \$6000 + \$32p

Revenue = p(\$200 − \$2(p − 60))

Step 2: Maximize equation (profit)

Profit = p(\$200 − \$2(p − 60)) − [\$6000 + \$32p]

= \$200p − \$2p² + \$120p − \$6000 − \$32p

= \$−2p² + \$288p − \$6000

Take derivative: $\frac{dProfit}{dp} = -4p + 288$

Set equal to zero to find max/min: $-4p + 288 = 0$

$p = 72$

Step 3: answer questions

a) What is the optimal number of people: **p = 72**

b) What is your maximum profit?

Revenue: \$200 x 72 = \$14,400

Discount: 12 people over 60 ---- \$24 discount/person

\$24 x 72 = \$1728

Total revenue: \$12,672

Cost: \$6000 + \$32(72 people) = \$8304

Profit: \$12,672 − \$8304 = **\$4,368**

Step 4: Check your answer

71 tourists: Revenue: \$200 x 71 = \$14,200
Discount: (11 x \$2) x 71 = −\$1562
Cost: \$6000 + (\$32 x 71) = −\$8272
Profit: \$4366

72 tourists: Profit: \$4368

73 tourists: Revenue: \$200 x 73 = \$14,600
Discount: (13 x \$2) x 73 = \$1898
Cost: \$6000 + (\$32 x 73) = \$8336
Profit: \$4366

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8) The quantity $Q = 2x^2 + 3y^2$ is subject to the constraint $x + y = 5$.
What is the minimum quantity of Q?

Since Q is a function of x and y, let's change to 1 variable....

$x + y = 5 \longrightarrow y = 5 - x$ then, substitute into the main equation...

$Q = 2x^2 + 3(5 - x)^2$

$Q = 2x^2 + 75 - 30x + 3x^2$

$Q = 5x^2 - 30x + 75$ find derivative of Q...

$Q' = 10x - 30$

$10x - 30 = 0$ so,
minimum occurs at $x = 3$
and, therefore, $y = 2$
because $x + y = 5$

$Q = 2(3)^2 + 3(2)^2$

Q = 30

If x = 2 and y = 3,
then, Q = 35

If x = 4 and y = 1
then, Q = 35

Tutor-USA.com Worksheet
Differentiation

Name: ____________________
Date: ______ Period: ______ Score: ______

Find the derivative:

(1) [illegible]

(2) [illegible]

(3) [illegible]

(4) [illegible]

(5) [illegible]

(6) [illegible]

[illegible]

Derivatives using Power Rule

[illegible]

Name : ______________ Score : ________

Teacher : ______________ Date : ________

Power, Constant, and Sum Rules

Differentiate each function with respect to the given variable.

1) $y = \frac{-17}{x^5}$

2) $y = \frac{3}{8}x^{\frac{-3}{13}}$

3) $y = -x^3 + 2x^2 + 33x - 90$

4) $y = -18$

5) $y = -13$

6) $y = -x^3 + 5x^2 + 8x - 48$

7) $y = \frac{6}{7}x^{\frac{4}{7}}$

8) $y = \frac{-8}{x^2}$

9) $y = \frac{-2}{9}x^{\frac{-4}{5}}$

10) $y = -14$

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