Algebra II

7-7 Word Problems In a quadratic, where is the minimum or maximum value always located?

+he vertex, where

the derivative = 0

How can we tell if a quadratic will have a maximum or a minimum just by looking at the equation?

a is positive > min U

Given the vertex

the input

that causes
a max or min

to occur.

Given the vertex

value of the
max or min
that causes

1) The sum of two numbers is 20. If one number is x, then the other number is 2. Their product p(x) = 2. Find the maximum value of p.

Find the maxim

9) A charter company will provide a plane for a fare of \$60 each for 20 or fewer passengers. For each passenger in excess of 20, the fare is decreased \$2 per person for everyone. What number of passengers will produce the greatest revenue for the company?

Revenue = (Fare X passengers)

Assignment:

Pg. 343 2, 5, 6, 10, 12, 13, 15