

- 1) The profit made by a small business on the manufacture and sale of x items is

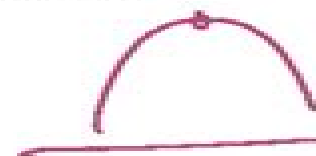
$$P(x) = -x^2 + 126x - 1100.$$

- 2) What is the value of $P(0)$? Write a sentence explaining what this number means in the context of this problem.

$$P(0) = -(0)^2 + 126(0) - 1100$$

$$= -1100$$

The company lost \$1100 by not making + selling anything



- 3) Algebraically find the number of items that should be manufactured and sold in order to realize the maximum profit.

$$x = -\frac{b}{2a} = \frac{-126}{2(-1)} = \boxed{63}$$

- 4) What is the amount of the maximum profit?

$$P(63) = -(63)^2 + 126(63) - 1100$$

$$= \boxed{\$2869}$$

- 5) What is a graphing window on your calculator that displays the vertex and all intercepts for this profit function? Using this window, graph the function.

- 6) Suppose that the company is making a profit of \$1600. How many items (to the nearest whole number) are being manufactured and sold?

$$1600 = -x^2 + 126x - 1100$$

$$0 = -x^2 + 126x - 2700$$

$$\frac{126 \pm \sqrt{5076}}{2} \approx \boxed{27}$$

$$\frac{126 \pm \sqrt{5076 - 10800}}{2} = \frac{126 \pm \sqrt{5076}}{2}; \quad \frac{126 + \sqrt{5076}}{2} \approx \boxed{99}$$

- 7) When profit is zero, the company is said to break even. Determine the number of items (to the nearest whole number) that must be manufactured and sold so that the company breaks even.

$$0 = -x^2 + 126x - 1100$$

$$\frac{-126 \pm \sqrt{126^2 - 4(-1)(-1100)}}{-2} = \frac{126 \pm \sqrt{5076 - 4400}}{2} = \frac{126 \pm \sqrt{676}}{2}$$

$$\frac{126 - \sqrt{676}}{2} \approx \boxed{10}$$

Quadratic Formula

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M Tight



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