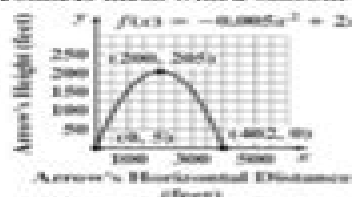


5. $f(x) = -0.005x^2 + 2x + 5$
- a. The information needed is found at the vertex, x -coordinate of vertex
- $$x = \frac{-b}{2a} = \frac{-2}{2(-0.005)} = 200$$
- y -coordinate of vertex
- $$y = -0.005(200)^2 + 2(200) + 5 = 205$$
- The vertex is $(200, 205)$.
The maximum height of the arrow is 205 feet.
This occurs 200 feet from its release.
- b. The arrow will hit the ground when the height reaches 0.
- $$f(x) = -0.005x^2 + 2x + 5$$
- $$0 = -0.005x^2 + 2x + 5$$
- $$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$
- $$x = \frac{-2 \pm \sqrt{2^2 - 4(-0.005)(5)}}{2(-0.005)}$$
- $$x = -2 \text{ or } x = 402$$
- The arrow travels 402 feet before hitting the ground.

- c. The starting point occurs when $x = 0$. Find the corresponding y -coordinate.

$$f(x) = -0.005(0)^2 + 2(0) + 5 = 5$$

Plot $(0, 5)$, $(402, 0)$, and $(200, 205)$, and connect them with a smooth curve.



6. Let x = one of the numbers;
 $x - 8$ = the other number.
The product is $f(x) = x(x - 8) = x^2 - 8x$
The x -coordinate of the minimum is
- $$x = -\frac{b}{2a} = -\frac{-8}{2(1)} = -\frac{-8}{2} = 4.$$
- $$f(4) = (4)^2 - 8(4) = 16 - 32 = -16$$
- The vertex is $(4, -16)$.
The minimum product is -16 . This occurs when the two numbers are 4 and $4 - 8 = -4$.

7. Maximize the area of a rectangle constructed with 120 feet of fencing.
Let x = the length of the rectangle. Let y = the width of the rectangle.

Since we need an equation in one variable, use the perimeter to express y in terms of x .

$$2x + 2y = 120$$

$$2y = 120 - 2x$$

$$y = \frac{120 - 2x}{2} = 60 - x$$

We need to maximize $A = xy = x(60 - x)$. Rewrite A as a function of x .

$$A(x) = x(60 - x) = -x^2 + 60x$$

Since $a = -1$ is negative, we know the function opens downward and has a maximum at

$$x = -\frac{b}{2a} = -\frac{60}{2(-1)} = -\frac{60}{-2} = 30.$$

When the length x is 30, the width y is
 $y = 60 - x = 60 - 30 = 30$.

The dimensions of the rectangular region with maximum area are 30 feet by 30 feet. This gives an area of $30 \cdot 30 = 900$ square feet.

Concept and Vocabulary Check 2.2

- standard; parabolic; (h, k) ; > 0 ; < 0
- $-\frac{b}{2a}$; $f\left(-\frac{b}{2a}\right)$; $-\frac{b}{2a}$; $f\left(-\frac{b}{2a}\right)$
- true
- false
- true
- $x - 8$; $x^2 - 8x$
- $40 - x$; $-x^2 + 40x$

Exercise Set 2.2

- vertex: $(1, 1)$
 $h(x) = (x - 1)^2 + 1$
- vertex: $(-1, 1)$
 $g(x) = (x + 1)^2 + 1$

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Victor M. Corman



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