

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.

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

$$0 = -0.005x^2 + 2x + 5$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-2 \pm \sqrt{2^2 - 4(-0.005)(5)}}{2(-0.005)}$$

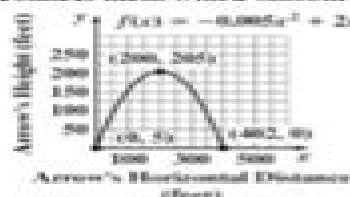
$$x = -2 \text{ or } x = 402$$

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

1. standard; parabolic;  $(h, k)$ ;  $> 0$ ;  $< 0$

2.  $-\frac{b}{2a}$ ;  $f\left(-\frac{b}{2a}\right)$ ;  $-\frac{b}{2a}$ ;  $f\left(-\frac{b}{2a}\right)$

3. true

4. false

5. true

6.  $x - 8$ ;  $x^2 - 8x$

7.  $40 - x$ ;  $-x^2 + 40x$

### Exercise Set 2.2

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

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**AN Whitehead**



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