

6-73.

From the graph, $x \approx 3.7$ and $y \approx 6.3$, when students look at the table of values they can justify that since $f(3) = 5.5$ and $g(3) = 4.95$ and then $f(4) = 6.6$ and $g(4) = 6.85$ that the two functions must have the same value between $x = 3$ and $x = 4$ and that value must be between **5.5** and **6.6**.

6-74.

a. $h = 2c - 3$

b. $3h + 1.5c = 201$

c. **28** corndogs were sold.

6-75.

Yes; adding equal values to both sides of an equality preserves the equality.

6-76.

a. $x = 2.2$

b. $x = 6$

c. $x = -10.5$

d. $x = 0$

6-77.

$$a_n = t(n) = 32\left(\frac{1}{2}\right)^n$$

6-78.

a. $y = -3x + 7$

b. $y = -x - \frac{2}{5}$