

CHAPTER ONE

Solutions for Section 1.1

Exercises

1. Since t represents the number of years since 2010, we see that $t = 5$ represents the population of the city in 2015. In 2015, the city's population was 7 million.
2. Since $t = t(t)$ we see that $t(200)$ is the value of t when $t = 200$; that is, the thickness of pelican eggs when the concentration of PCBs is 200 ppm.
3. If there are no workers, there is no productivity, so the graph goes through the origin. At first, as the number of workers increases, productivity also increases. As a result, the curve goes up initially. At a certain point the curve reaches its highest level, after which it goes downward; in other words, as the number of workers increases beyond that point, productivity decreases. This might, for example, be due either to the inefficiency inherent in large organizations or simply to workers getting in each other's way as too many are crammed on the same line. Many other reasons are possible.
4. The slope is $(1 - 0)/(1 - 0) = 1$. So the equation of the line is $y = x$.
5. The slope is $(3 - 2)/(2 - 0) = 1/2$. So the equation of the line is $y = (1/2)x + 2$.
6. The slope is

$$\text{Slope} = \frac{3 - 1}{2 - (-2)} = \frac{2}{4} = \frac{1}{2}.$$

Now we know that $y = (1/2)x + 2$. Using the point $(-2, 1)$ we have $1 = -2/2 + 2$, which yields $2 = 2$. Thus, the equation of the line is $y = (1/2)x + 2$.

7. The slope is $\frac{6 - 0}{2 - (-1)} = 2$. So the equation of the line is $6 = 2(x - 0) + b$, which yields $b = 4$. Thus, the equation of the line is $y = 2x + 4$.
8. Rewriting the equation as $y = -\frac{5}{2}x + 4$ shows that the slope is $-\frac{5}{2}$ and the vertical intercept is 4.
9. Rewriting the equation as

$$x = \frac{12}{7}y + \frac{2}{7}$$

shows that the line has slope $7/12$ and vertical intercept $2/7$.

10. Rewriting the equation of the line as

$$\begin{aligned} -x &= \frac{-2}{4}x - 2 \\ x &= \frac{1}{2}x + 2, \end{aligned}$$

we see the line has slope $1/2$ and vertical intercept 2.

11. Rewriting the equation of the line as

$$\begin{aligned} x &= \frac{12}{6}x - \frac{4}{6} \\ x &= 2x - \frac{2}{3} \end{aligned}$$

we see that the line has slope 2 and vertical intercept $2/3$.

12. (a) is (V), because slope is positive, vertical intercept is negative
 (b) is (IV), because slope is negative, vertical intercept is positive
 (c) is (I), because slope and vertical intercept are both positive
 (d) is (VI), because slope and vertical intercept are both negative
 (e) is (III), because slope and vertical intercept are both positive
 (f) is (II), because slope is positive, vertical intercept is



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