

CHAPTER ONE

Solutions for Section 1.1

Exercises

1. Since t represents the number of years since 2010, we see that $f(5)$ represents the population of the city in 2015. In 2015, the city's population was 7 million.
2. Since $T = f(P)$, we see that $f(200)$ is the value of T when $P = 200$; 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 $y = (1/2)x + b$. Using the point $(-2, 1)$, we have $1 = -2/2 + b$, which yields $b = 2$. 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 $y - 6 = 2(x - 2)$ or $y = 2x + 2$.

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

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

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

10. Rewriting the equation of the line as

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

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

11. Rewriting the equation of the line as

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

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 is 0, vertical intercept is positive
- (d) is (VI), because slope and vertical intercept are both negative
- (e) is (II), because slope and vertical intercept are both positive
- (f) is (III), because slope is positive, vertical intercept is 0

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Table of Contents Calculus 3 Mccallum Solution Manual

1. Understanding the eBook Calculus 3 Mccallum Solution Manual
 - The Rise of Digital Reading Calculus 3 Mccallum Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus 3 Mccallum Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Calculus 3 Mccallum Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus 3 Mccallum Solution Manual
 - Personalized Recommendations
 - Calculus 3 Mccallum Solution Manual User Reviews and Ratings
 - Calculus 3 Mccallum Solution Manual and Bestseller Lists
5. Accessing Calculus 3 Mccallum Solution Manual Free and Paid eBooks
 - Calculus 3 Mccallum Solution Manual Public Domain eBooks
 - Calculus 3 Mccallum Solution Manual eBook Subscription Services

- Calculus 3 Mccallum Solution Manual Budget-Friendly Options
- 6. Navigating Calculus 3 Mccallum Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculus 3 Mccallum Solution Manual Compatibility with Devices
 - Calculus 3 Mccallum Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculus 3 Mccallum Solution Manual
 - Highlighting and Note-Taking Calculus 3 Mccallum Solution Manual
 - Interactive Elements Calculus 3 Mccallum Solution Manual
- 8. Staying Engaged with Calculus 3 Mccallum Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculus 3 Mccallum Solution Manual
- 9. Balancing eBooks and Physical Books Calculus 3 Mccallum Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculus 3 Mccallum Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Calculus 3 Mccallum Solution Manual
 - Setting Reading Goals Calculus 3 Mccallum Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calculus 3 Mccallum Solution Manual
 - Fact-Checking eBook Content of Calculus 3 Mccallum Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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