

## Chapter 2

### Polynomial, Power, and Rational Functions

#### ■ Section 2.1 Linear and Quadratic Functions and Modeling

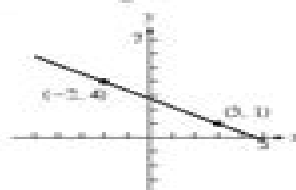
##### Exploration 1

1.  $-\$2000$  per year.
2. The equation will have the form  $v(t) = at + b$ . The value of the building after 0 year is  $v(0) = a(0) + b = b = 50,000$ .  
The slope  $a$  is the rate of change, which is  $-2000$  (dollars per year). So an equation for the value of the building (in dollars) as a function of the time (in years) is  $v(t) = -2000t + 50,000$ .
3.  $v(0) = 50,000$  and  $v(16) = -2000(16) + 50,000 = 18,000$  dollars.
4. The equation  $v(t) = 39,000$  becomes  

$$\begin{aligned} -2000t + 50,000 &= 39,000 \\ -2000t &= -11,000 \\ t &= 5.5 \text{ years.} \end{aligned}$$

##### Quick Review 2.1

1.  $y = 8x + 3.6$
2.  $y = -1.8x - 2$
3.  $y - 4 = -\frac{3}{5}(x + 2)$ , or  $y = -0.6x + 2.8$



4.  $y - 5 = \frac{8}{3}(x - 1)$ , or  $y = \frac{8}{3}x + \frac{7}{3}$

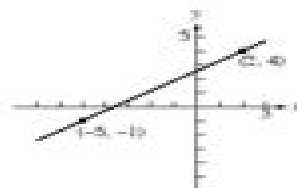


5.  $(x + 3)^2 = (x + 3)(x + 3) = x^2 + 3x + 3x + 9 = x^2 + 6x + 9$

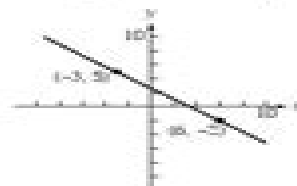
6.  $(x - 4)^2 = (x - 4)(x - 4) = x^2 - 4x - 4x + 16 = x^2 - 8x + 16$
7.  $3(x - 6)^2 = 3(x - 6)(x - 6) = (3x - 18)(x - 6) = 3x^2 - 18x - 18x + 108 = 3x^2 - 36x + 108$
8.  $-3(x + 7)^2 = -3(x + 7)(x + 7) = (-3x - 21)(x + 7) = -3x^2 - 21x - 21x - 147 = -3x^2 - 42x - 147$
9.  $2x^2 - 4x + 2 = 2(x^2 - 2x + 1) = 2(x - 1)(x - 1) = 2(x - 1)^2$
10.  $3x^2 + 12x + 12 = 3(x^2 + 4x + 4) = 3(x + 2)(x + 2) = 3(x + 2)^2$

##### Section 2.1 Exercises

1. Not a polynomial function because of the exponent  $-5$ .
2. Polynomial of degree 1 with leading coefficient 2
3. Polynomial of degree 5 with leading coefficient 2
4. Polynomial of degree 0 with leading coefficient 13
5. Not a polynomial function because of cube root
6. Polynomial of degree 2 with leading coefficient  $-5$
7.  $m = \frac{5}{7}$  so  $y - 4 = \frac{5}{7}(x - 2) \Rightarrow f(x) = \frac{5}{7}x + \frac{18}{7}$



8.  $m = -\frac{7}{9}$  so  $y - 5 = -\frac{7}{9}(x + 3) \Rightarrow f(x) = -\frac{7}{9}x + \frac{8}{3}$



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**Richard Bailey**



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## **Table of Contents Precalculus 8th Edition Solutions**

1. Understanding the eBook Precalculus 8th Edition Solutions
  - The Rise of Digital Reading Precalculus 8th Edition Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Precalculus 8th Edition Solutions
  - 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 Precalculus 8th Edition Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Precalculus 8th Edition Solutions
  - Personalized Recommendations
  - Precalculus 8th Edition Solutions User Reviews and Ratings
  - Precalculus 8th Edition Solutions and Bestseller Lists
5. Accessing Precalculus 8th Edition Solutions Free and Paid eBooks
  - Precalculus 8th Edition Solutions Public Domain eBooks
  - Precalculus 8th Edition Solutions eBook Subscription Services
  - Precalculus 8th Edition Solutions Budget-Friendly Options

6. Navigating Precalculus 8th Edition Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Precalculus 8th Edition Solutions Compatibility with Devices
  - Precalculus 8th Edition Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Precalculus 8th Edition Solutions
  - Highlighting and Note-Taking Precalculus 8th Edition Solutions
  - Interactive Elements Precalculus 8th Edition Solutions
8. Staying Engaged with Precalculus 8th Edition Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Precalculus 8th Edition Solutions
9. Balancing eBooks and Physical Books Precalculus 8th Edition Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Precalculus 8th Edition Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Precalculus 8th Edition Solutions
  - Setting Reading Goals Precalculus 8th Edition Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Precalculus 8th Edition Solutions
  - Fact-Checking eBook Content of Precalculus 8th Edition Solutions
  - 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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