

Chapter 2

Polynomial, Power, and Rational Functions

Section 2.1 Linear and Quadratic Functions and Modeling

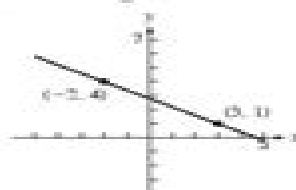
Exploration 1

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 $y = \frac{8}{3}x + \frac{7}{3}$

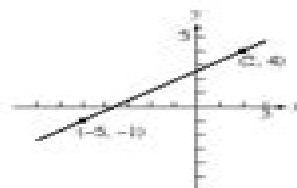


5. $(x + 3)^2 = (x + 3)(x + 3) = x^2 + 3x + 3x + 9 = x^2 + 6x + 9$

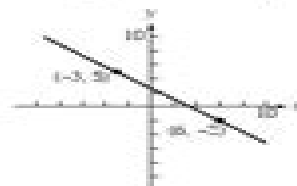
6. $(x - 4)^2 = (x - 4)(x - 4) = x^2 - 4x - 4x + 16 = x^2 - 8x + 16$
7. $3(x - 6)^2 = 3(x - 6)(x - 6) = (3x - 18)(x - 6) = 3x^2 - 18x - 18x + 108 = 3x^2 - 36x + 108$
8. $-3(x + 7)^2 = -3(x + 7)(x + 7) = (-3x - 21)(x + 7) = -3x^2 - 21x - 21x - 147 = -3x^2 - 42x - 147$
9. $2x^2 - 4x + 2 = 2(x^2 - 2x + 1) = 2(x - 1)(x - 1) = 2(x - 1)^2$
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 $y - 5 = -\frac{7}{9}(x + 3) \Rightarrow f(x) = -\frac{7}{9}x + \frac{8}{3}$



Precalculus 6th Edition Answers

Dale W Johnson, Kerry J King



Precalculus 6th Edition Answers:

Complete Solutions Manual for Precalculus, 6th Cohen, Ross Rueger, 2005-03 The complete solutions manual provides worked out solutions to all of the problems in the text Pre-Calculus Problems with Worked Solutions Quantum Scientific Publishing, 2023-06-11 Each book in our series of worked problems contains hundreds of problems with answers and detailed solutions The answers are separate from the solutions since many students just want to know that their answer is wrong before trying the problem again Titles in the series 1 Pre Algebra Problems with Worked Solutions 2 Algebra Problems with Worked Solutions 3 Pre Calculus Problems with Worked Solutions 4 Calculus Problems with Worked Solutions 5 Statistics Problems with Worked Solutions El-Hi Textbooks & Serials in Print, 2005 , 2005 Precalculus with Trigonometry Paul A. Foerster, 2003 Precalculus with Trigonometry Concepts and Applications Precalculus Ron Larson, Robert P. Hostetler, 2003-01-29 Pre-Calculus For Dummies Yang Kuang, Elleyne Kase, 2012-06-26 Offers an introduction to the principles of pre calculus covering such topics as functions law of sines and cosines identities sequences series and binomials

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Forthcoming Books Rose Arny, 2003 Precalculus COMAP, 2001-07-15 COMAP's new text for the precalculus course focuses on modeling and contemporary applications Cracking the AP Calculus AB Exam, 2020 Edition . The Princeton Review, 2019-08-06 Cracking the AP Calculus AB Exam 2020 Edition is dedicated to the calculus topics students need to cover to succeed on the AB test including functions graphs limits derivatives and integrals The exam covers all the information students need to succeed on the AB test including functions graphs limits derivatives and integrals The exam covers the material taught in a full year course and this edition reflects all the topics covered by the exam the curriculum structure and the exam setup and question types **Princeton Review AP Calculus AB Premium Prep 2021** The Princeton Review, 2020-08 The Premium edition of our popular annual study guide that provides all the info students need to succeed on the AP Calculus AB Exam now with an additional test added for 7 full length practice tests for maximum scoring success AP Calculus AB Premium Prep 2021 previously titled Cracking the AP Calculus AB Exam Premium Edition is dedicated to the calculus topics students need to cover to succeed on the AB test including functions graphs limits derivatives and integrals The exam covers the material taught in a full year course and this edition reflects all the topics covered by the exam the curriculum structure and the exam setup and question types This Premium edition now includes 7 full length practice tests 5 in the book and 2 online for the most practice possible Princeton Review AP Calculus AB Prep 2021 The Princeton Review, 2020-08 Make sure you're studying with the most up to date prep materials Look for the newest

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