

Chapter 2

Polynomial, Power, and Rational Functions

Section 2.1 Linear and Quadratic Functions and Modeling

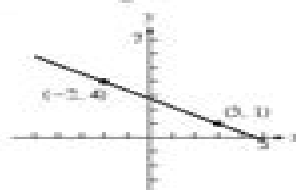
Exploration 1

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

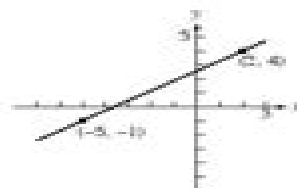


5. $(x + 3)^2 = (x + 3)(x + 3) = x^2 + 3x + 3x + 9 = x^2 + 6x + 9$

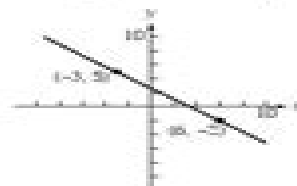
6. $(x - 4)^2 = (x - 4)(x - 4) = x^2 - 4x - 4x + 16 = x^2 - 8x + 16$
7. $3(x - 6)^2 = 3(x - 6)(x - 6) = (3x - 18)(x - 6) = 3x^2 - 18x - 18x + 108 = 3x^2 - 36x + 108$
8. $-3(x + 7)^2 = -3(x + 7)(x + 7) = (-3x - 21)(x + 7) = -3x^2 - 21x - 21x - 147 = -3x^2 - 42x - 147$
9. $2x^2 - 4x + 2 = 2(x^2 - 2x +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