

Get Ready for the Chapter

Diagnose Readiness | You have two options for checking prerequisite skills.

1 Textbook Option Take the Quick Check below. Refer to the Quick Review for help.

QuickCheck	QuickReview
<p>Evaluate each expression for the given values.</p> <ol style="list-style-type: none"> $3x + y$ if $x = -4$ and $y = 2$ $-2m + 3k$ if $m = -8$ and $k = 3$ CARS The expression $\frac{m \text{ mi}}{g \text{ gal}}$ represents the gas mileage of a car. Find the gas mileage of a car that goes 295 miles on 12 gallons of gasoline. Round to the nearest tenth. 	<p>Example 1</p> <p>Evaluate $-3x^2 + 4x - 6$ if $x = -2$.</p> <div> $-3x^2 + 4x - 6$ $= -3(-2)^2 + 4(-2) - 6$ $= -3(4) + 4(-2) - 6$ $= -12 + (-8) - 6$ $= -26$ </div> <div> Original expression Replace x with -2. Evaluate the power. Multiply. Add and subtract. </div>
<p>Solve each equation.</p> <ol style="list-style-type: none"> $x - 4 = 9$ $4x = -16$ $2x + 1 = 9$ $9x + 2 = 3x - 10$ $3(x - 2) = -2(x + 13)$ $x + 8 = -3$ $\frac{x}{3} = 7$ $4x - 5 = 15$ <p>12. FINANCIAL LITERACY Claudia opened a savings account with \$325. She saves \$100 per month. Write an equation to determine how much money d, she has after m months.</p>	<p>Example 2</p> <p>Solve $-2(x - 4) = 7x - 19$.</p> <div> $-2(x - 4) = 7x - 19$ $-2x + 8 = 7x - 19$ $-2x + 8 + 2x = 7x - 19 + 2x$ $8 = 9x - 19$ $8 + 19 = 9x - 19 + 19$ $27 = 9x$ $3 = x$ </div> <div> Original equation Distributive Property Add $2x$ to each side. Simplify. Add 19 to each side. Simplify. Divide each side by 3. </div>
<p>Solve each equation.</p> <ol style="list-style-type: none"> $x + 11 = 18$ $3x - 2 = 16$ 15. SURVEYS In a survey, 32% of the people chose pizza as their favorite food. The results were reported to within 2% accuracy. What is the maximum and minimum percent of people who chose pizza? 	<p>Example 3</p> <p>Solve $x - 4 = 9$.</p> <p>If $x - 4 = 9$, then $x - 4 = 9$ or $x - 4 = -9$.</p> <div> $x - 4 = 9$ or $x - 4 = -9$ $x - 4 + 4 = 9 + 4$ $x - 4 + 4 = -9 + 4$ $x = 13$ $x = -5$ </div> <p>So, the solution set is $\{-5, 13\}$.</p>

2 Online Option Take an online self-check Chapter Readiness Quiz at connectED.mcgraw-hill.com.

