

5.14 Variables on Both Sides

Chapter 5: Introduction to Algebra

Name: _____

Date: _____

Class/Period: _____

Problem 5.237 Solve $5x + 1 = 3x + 15$.

Problem 5.240 Solve $11 - 4x = 2x - 7$.

Problem 5.238 Solve $8x - 7 = 6x + 9$.

Problem 5.241 Solve $-3x + 8 = x - 12$.

Problem 5.239 Solve $2x + 18 = 5x - 3$.

Problem 5.242 Solve $7x + 5 = 9x + 17$.

5.14 Variables on Both Sides

Chapter 5: Introduction to Algebra

Problem 5.243 Solve $3(x + 4) = 2x + 19$.

Problem 5.246 Solve $0.6x + 5 = 0.2x + 13$.

Problem 5.244 Solve $5(x - 2) = 3(x + 6)$.

Problem 5.247 Solve $\frac{2}{3}x - 1 = \frac{1}{6}x + 9$.

Problem 5.245 Solve $2(3x + 1) = 4(x - 2) + 18$.

Problem 5.248 Solve $4 - \frac{1}{2}x = \frac{1}{4}x + 10$.

5.14 Variables on Both Sides

Chapter 5: Introduction to Algebra

Problem 5.249 Solve $4(2x - 3) + 5 = 3(x + 6)$.

Problem 5.251 Solve $6x + 9 = 2x + 25$ by eliminating $2x$, then solve again by eliminating $6x$. Compare.

Problem 5.250 Solve $-2(x - 7) + 3x = 5(x + 1) - 8$.

Problem 5.252 A student changes $5x + 4 = 2x + 19$ to $3x + 4 = 19$. Explain the hidden legal step.