

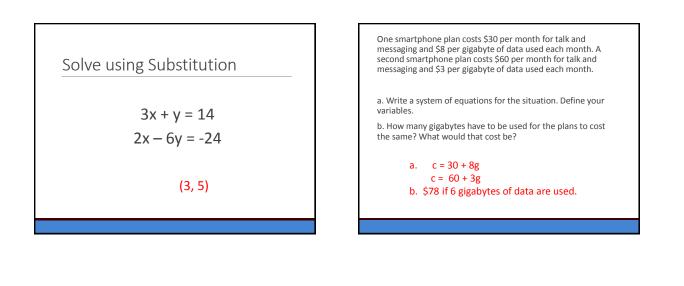
Solve using Substitution 3x - 2y = 7 x + 3y = -5(1, -2) Solve using Substitution 2x + 4y = 1 x + 6y = 1(1/4, 1/8)

Solve using Substitution

5x - y = 1810x - 2y = 32

No solution

Solve using Substitution -2x - 3y = 12 -4x - 6y = 24infinitely many solutions



A movie theater sells popcorn and fountain drinks. Brett buys 1 popcorn bucket and 3 fountain drinks for his family, and pays a total of \$9.50. Sarah buys 3 popcorn buckets and 4 fountain drinks for her family, and pays a total of \$19.75.

a. Write a system of equations for this situation.
b. Find the cost of a popcorn bucket and the cost of a fountain drink.

The length of a rectangular room is 5 feet more than its width. The perimeter of the room is 66 feet. Let L represent the length of the room and W represent the width in feet.

- a. Write a system for the situation.
- b. What are the room's dimensions?

a. L = W + 5 2L + 2W = 66 b. 14 X 19 feet

Word Problem

Aaron is three times as old as his son. In ten years, Aaron will be twice as old as his son. How old is Aaron now?

a. Write a system for the situation. Define your variables.

b. Solve by substitution

a. a = 3s a + 10 = 2(s+10)
b. Aaron is 30 years old

Homework

Worksheet