

Algebra 1, Unit 3

Name: _____ Date: _____ Period: _____

Solving using substitution:

Example 1: Find the value of y if $(5, y)$ is a solution to the equation $2x + 6y = 16$.

Example 2: What is x if $(x, -3)$ is a solution to the equation $2x + 3y = -17$.

Example 3: What is the value of x in the equation $4x - 5y = -16$ if the solution is $(x, 3)$?

Practice:

What is x if $(x, 5)$ is a solution to the equation $3x + 3y = 27$?	What is x if $(x, 9)$ is a solution to the equation $x + 3y = -17$?
What is the value of x in the equation $4x - 8y = -16$ if the solution is $(x, 3)$?	What is the value of x in the equation $2x - 5y = 16$ if the solution is $(x, 4)$?
Find the value of y if $(5, y)$ is a solution to the equation $2x + 4y = -20$.	Find the value of y if $(-10, y)$ is a solution to the equation $2x + 6y = 6$.