# 6.3 Solving Systems by Elimination

## Solving a System by Adding Equations

What is the solution of the system?	Use elimination.	2x + 5y = 17
1		6r - 5v0

3x  5y = y			
Step 2:			
ution as a solution set.			

## What is the solution of each system? Use elimination.

a)	5x - 6y = -32	b)	-3x - 3y = 9
сц <sub>ј</sub>	3x + 6y = 48	~,	3x - 4y = 5

### Solving a System by Multiplying One Equation

What is the solution of the system? Use elimination.  $\begin{aligned} -2x + 15y &= -32\\ 7x - 5y &= 17 \end{aligned}$ 

Step 1:	one equation to one variable	Step 2: Solve for the	variable. of the original equations.	Use
	Step 3: Write your solution as a	l		
	5	Λ		

What is the solution of the system? Use elimination. 5x-2y=43x+6y=6

Math 1

#### Solving a System by Multiplying Both Equations

Vhat is the solution of the system? Use elimination. $3x + 2y = 1$ $4x + 3y = -2$			
Step 1: Multiply eliminate	so you can 	Step 2:	for the eliminated variable. Use either of
Step 3:			as a solution set.

3x + 2y = 1

What is the solution of the system? Use elimination.  $\begin{array}{l} 4x+3y=-19\\ 3x-2y=-10 \end{array}$ 

## Finding the Number of Solutions

How many solutions does the system have? Use elimination. 2x + 6y = 18x + 3y = 9

How many solutions does the system have? Use elimination. -2x+5y=7-2x+5y=12