Name: _____ Date: _____

7/8A

Systems of Equations (Elimination)

Recall: Solve the following equation: $-y + y =$ _____

The **elimination** method is another method used to solve a system of linear equations.

The **steps** for this method are as follows:

1. Decide which variable to eliminate.
2. Multiply one equation by a constant so that adding or subtracting will eliminate that variable. (If necessary)
3. Add the equations to eliminate one variable.
4. Solve the resulting equation for the other variable.
5. Substitute the value into either original equation to find the value of the eliminated variable.

Solve the systems of equations using elimination.

	Examples	*Try It*

L1) $2x - 3y = 12$
 $x + 3y = 6$

$x + y = -1$
$x - y = 7$

L2) $3x + 3y = 6$
 $3x - y = -6$

$2x + 6y = 8$
$2x + 10y = -4$

Solve the following systems of equations using elimination.

	Examples		_Try It_

L3) $4x + 2y = 6$
   $3x - y = -8$

$4x + 3y = 19$
$2x + y = 11$

L4) $4x + 2y = -10$
   $3x + 3y = 33$

$5x - 2y = -14$
$-3x + 3y = 3$