System of Equations

A system of equations is a group of equations with the same variables.

$$x + y = 5$$
 $3 + 2 = 5$
 $x - 5y = -7$ $3 - 5(2) = -7$
(3,2)

The **solution** to a system of equations is the ordered pair (x,y) that satisfies both equations

Solving a System of Equations by Elimination

$$2x + 3y = 34$$
 $2x + 6y = -8$
 $4x - 3y = -4$ $5x - 3y = 88$

Solving a System of Equations by Elimination

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

$$3x + 3y = -3$$