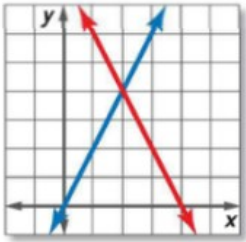
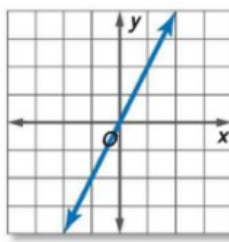
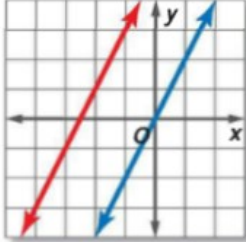


Solving Equations by Graphing

Graph			
Number of Solutions	ONE	Infinite	None
Case	Intersect	Same	Parallel

INDEPENDENT vs. DEPENDENT

INDEPENDENT = Different Lines

DEPENDENT = Same Lines

STANDARD FORM

$$Ax + By = C \quad \text{to} \quad y = mx + b$$

1. Get rid of "Ax"
2. Get "y" by itself

EXAMPLE #1

Solve by Graphing

$$2x + 4y = 4$$

$$\begin{array}{r} -2x \\ -2x \end{array}$$

$$\frac{4y}{4} = \frac{-2x + 4}{4}$$

$$y = -\frac{1}{2}x + 1$$

$$-3x + 3y = 9$$

$$\begin{array}{r} +3x \\ +3x \end{array}$$

$$\frac{3y}{3} = \frac{3x + 9}{3}$$

$$y = x + 3$$

