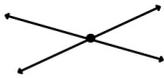
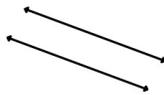


### 3.1/3.3 Systems of Linear Equations and Inequalities

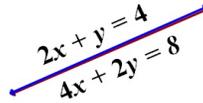
possible ways two lines could intersect:



1 pt.  
1 solution



no pts. (lines parallel)  
no solution



all pts. (lines coincide)  
solution is all pts. that satisfy either equation

1 Solve by graphing:

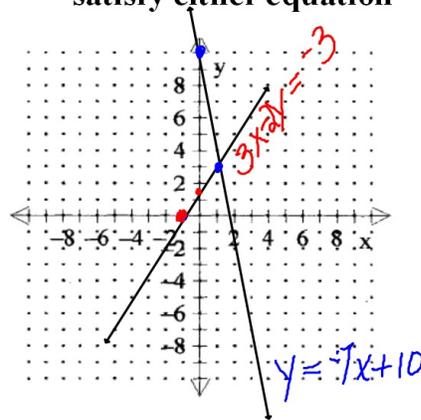
$$7x + y = 10$$

$$3x - 2y = -3$$

$$y = -7x + 10$$

$$y = \frac{3}{2}x - \frac{3}{2}$$

$$(1, 3)$$



2 Solve by graphing:

$$2x - 3y < -6$$

$$-1 \leq x \leq 3$$

$$x = -1 \quad x = 3$$

