MDI - Is the ordered pair a solution to the system?

(2,-3)

NO

$2x + y = 1$

$x + y = 5$

$2(2) + (-3) = 1$

$4 - 3 = 1$

$1 = 1$

$2 + (-3) = 5$

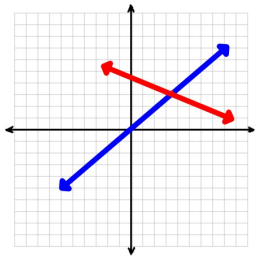
$-1 = 5$

Solving Systems of Equations: GRAPHING

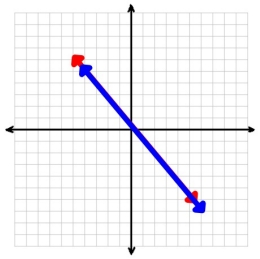
Learning Intentions - To understand the graphical interpretations of a system of equations.

Success Criteria - I can solve a system of linear equations by graphing.

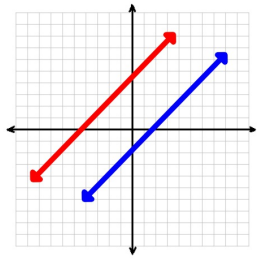
Graphical Interpretation



Exactly 1 solution



Infinitely many solutions

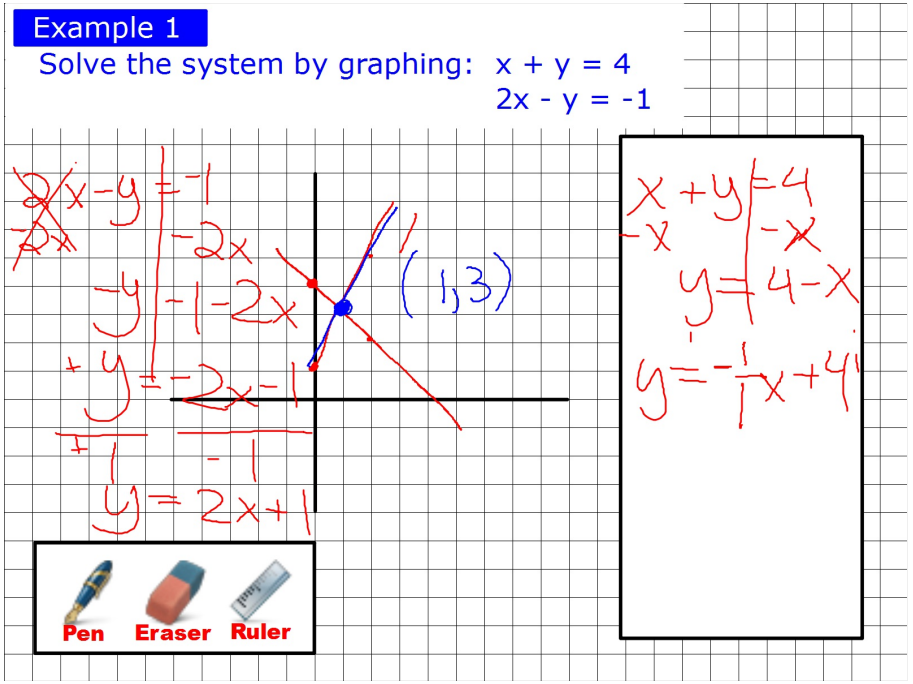


No solution

Example 1

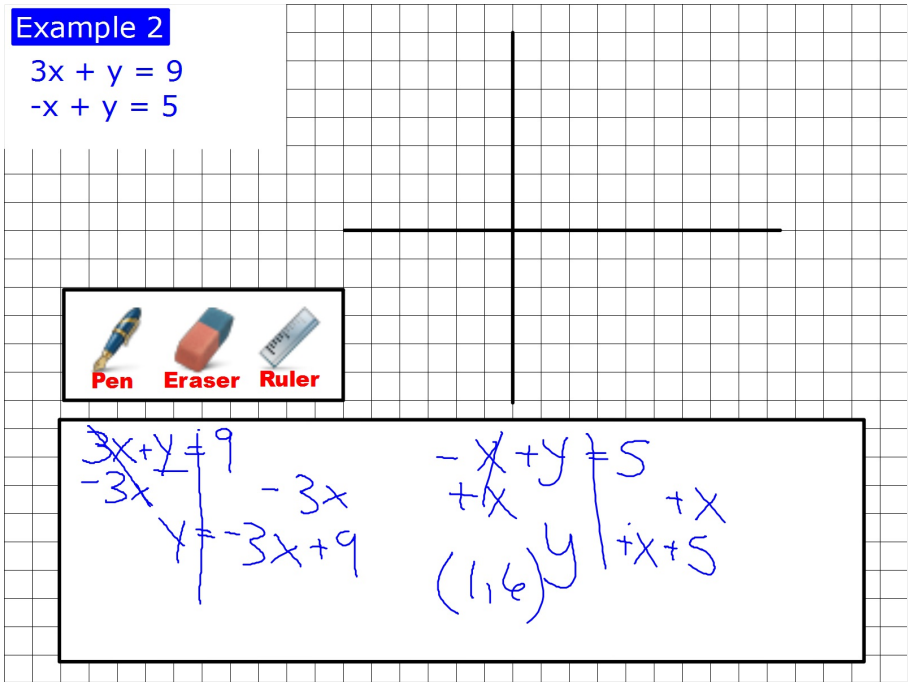
Solve the system by graphing: $x + y = 4$

$2x - y = -1$



Example 2

3x + y = 9
-x + y = 5



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

$y = -3x + 9$

$-x + y = 5$ | $+x$

$+x \quad +x + 5$

y

$(1, 6)$

Start Graphing worksheet (will also work on tomorrow!)