Algebra 1 6.1

Determine the number of solutions to a system of linear equations

Solve systems of linear equations by graphing

linear equation

system of equations

consistent

inconsistent

independent

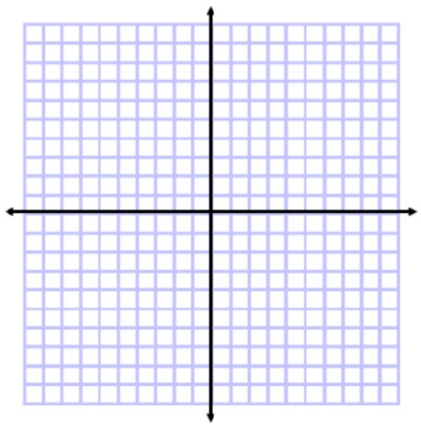
dependent

$y = mx + B$ *

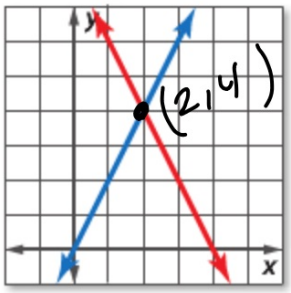
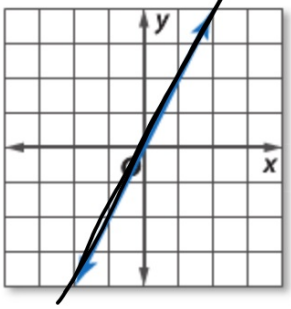
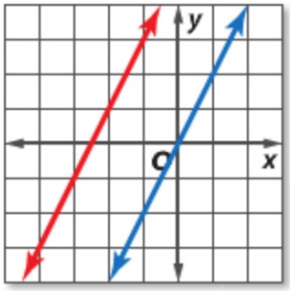
$y =$ constant

$x =$ constant

graph matching: equation, table, graph



ConceptSummary Possible Solutions

Number of Solutions	exactly one	infinite	no solution
Terminology	consistent and independent	consistent and dependent	inconsistent
Graph			

$y = x - 2$

GuidedPractice

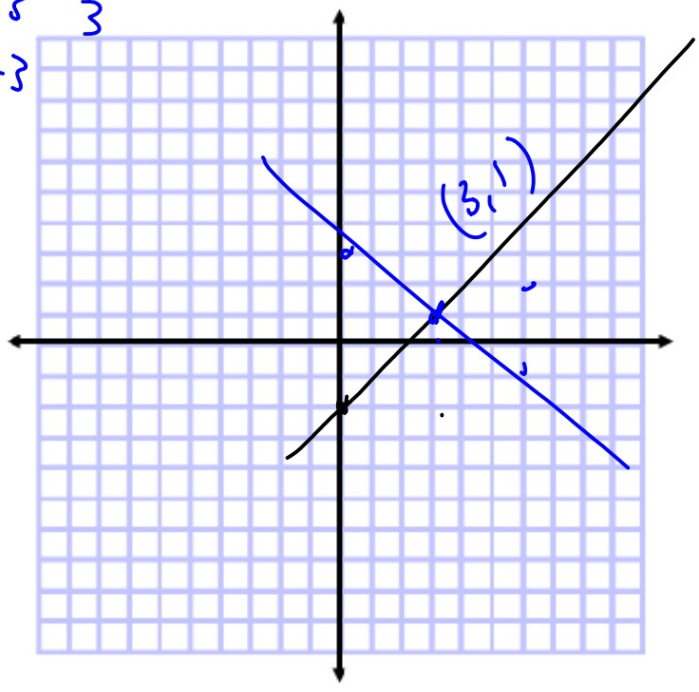
Graph each system and determine the number of solutions that it has. If it has one solution, name it.

2A. $x - y = 2$
$3y + 2x = 9$

$x - y = 2$
$-x \quad -x$
$-y = -x + 2$
$-1 \quad -1 \quad -1$

$-2x \quad -2x$
$3y = -2x + 9$
$3 \quad 3 \quad 3$
$y = -\frac{2}{3}x + 3$

2B. $y = -2x - 3$
$6x + 3y = -9$



a. graph
b. number of solutions
c. describe
d. what is the solution?

Matching activity
1. Match each graph with its equation
Check answers

2. Match table of values with equation/graph