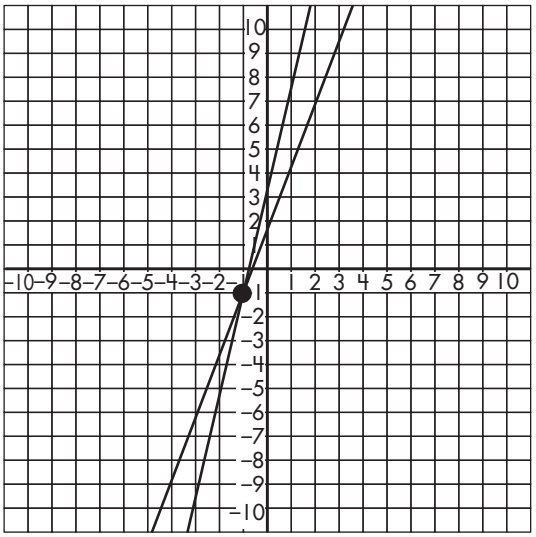
NAME _____

Lesson 3.8 Graphing Linear Equation Systems

Graphing both lines that make up an equation system can solve the system.

$y = 3x + 2$

$y = 2x + 1$



Step 1: Graph the first line in the system using slope intercept form as a guide.

Step 2: Graph the second line in the system using slope-intercept form as a guide.

Step 3: Find the point of intersection to solve the equation system.

$(-1, -1)$

Use slope-intercept form to graph each system of equations and solve the system.

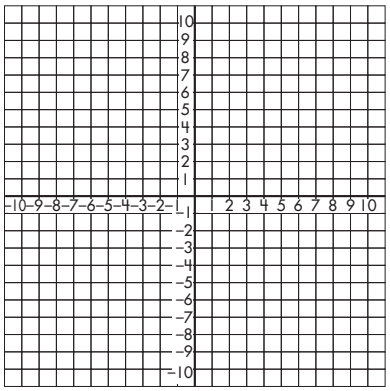
a

1. $y = -x + 4$

$y = 3x$

x: _____;

y: _____



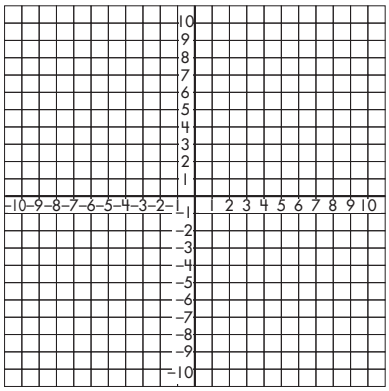
b

$y = 2x + 4$

$y = 3x + 2$

x: _____;

y: _____

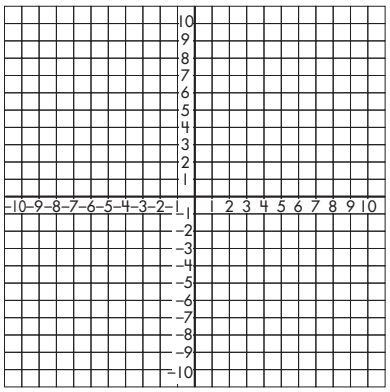


2. $y = -2x - 4$

$y = -4$

x: _____;

y: _____



$y = 2x - 2$

$y = -x - 5$

x: _____;

y: _____