

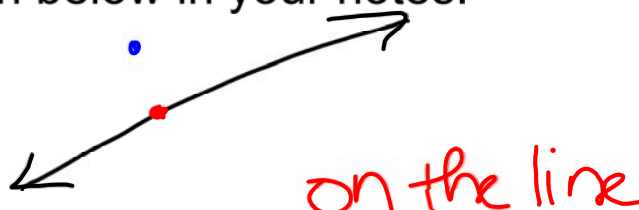
p.24-25 Solving Systems by Graphing 3.1

Warm-up

p.24

Write the equation below in your notes:

$$-3x + 2y = 8$$

Is $(-4, -2)$ a solution to the equation? ? (x, y)

$$-3(-4) + 2(-2) \stackrel{?}{=} 8$$

yes

$$12 + (-4) \stackrel{?}{=} 8$$

$$8 = 8 \checkmark$$

p.24-25 Solving Systems by Graphing 3.1

3.1 Solving Systems Using Tables and Graphs

a. I can solve a linear system using a graph.

b. I can solve a linear system using a table.

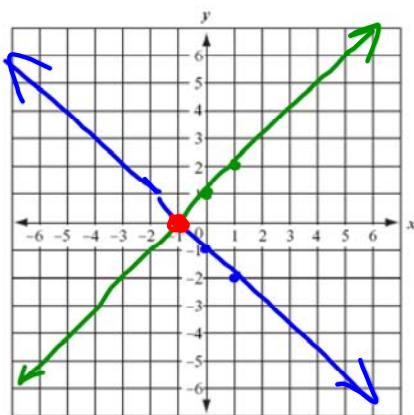
A linear system of equations is 2 or more lines
 A solution to a system of equations is location where lines intersect

Solve the Systems of Equations by GRAPHING

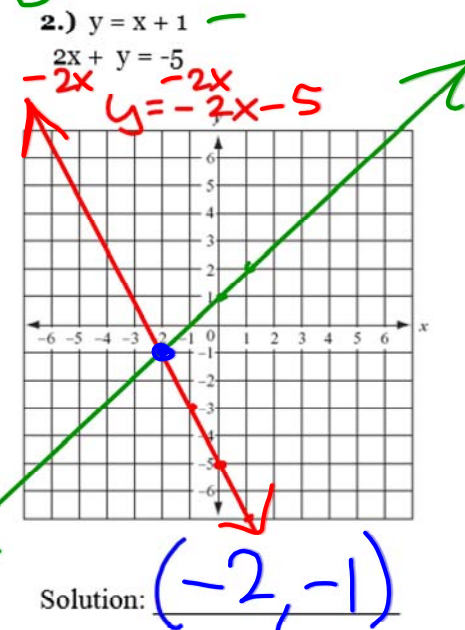
$$y = mx + b$$

p.25

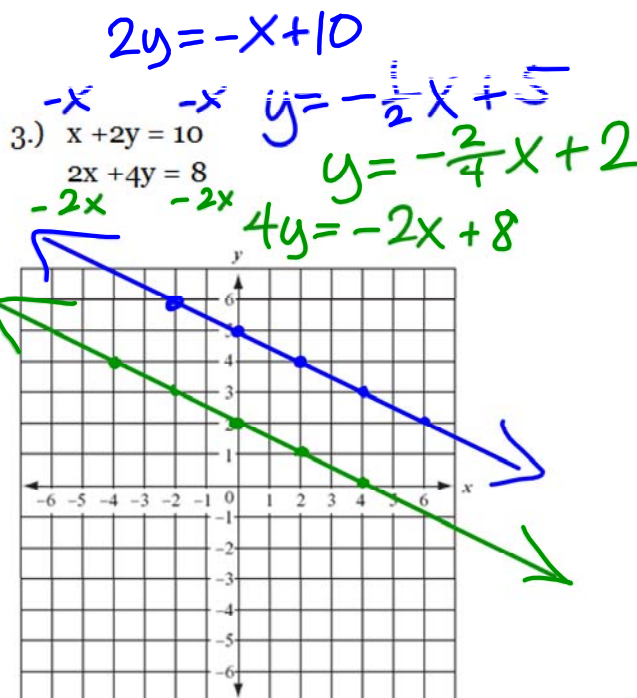
1.) $y = x + 1$ —
 $y = -x - 1$ —



Solution: $(-1, 0)$



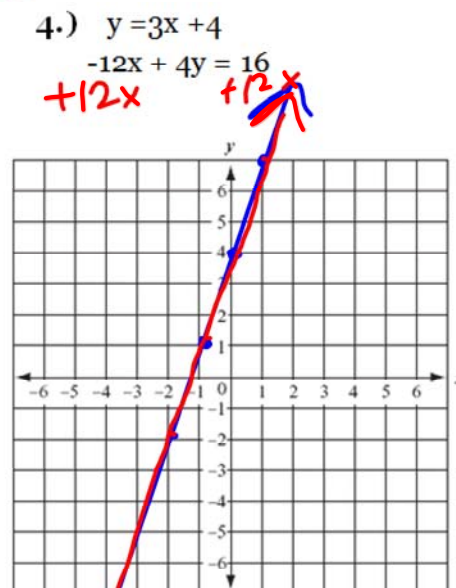
Solution: $(-2, -1)$



Solution: No solution

4.) $y = 3x + 4$
 $4y = 12x + 16$
 $y = 3x + 4$

p.25



Solution: Infinite

Exit Questions

p.24

**What are the 3 types of solutions to a linear system?
Describe each type and sketch what their graphs look
like?**

1)

2)

3)