Period: _____ Date: _

O1C2: Graphing Systems of Equations Notes

Steps for Solving a Linear System using Graph and Check

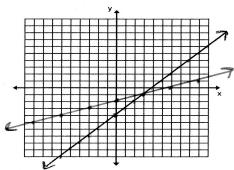
- 1. Graph both equations in the same coordinate plane.
- 2. Estimate the coordinates of the point of intersection.
- 3. Check the coordinates algebraically in each equation

Example 1: Graph and solve the system

$$y = x - 4$$

$$y = \frac{1}{3}x - 2$$

intersection: (3,-1)



Example 2:

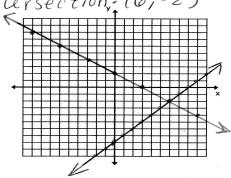
Graph and solve the system
$$z = x - y = 8$$

$$3y + 2x = 6$$

$$3y = 6 - 2x$$

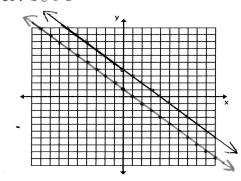
$$y = 2 - \frac{2}{3}x$$

intersection; (6,-2)



Example 3:

intersection: None



Example 4:

Graph and solve the system

$$\stackrel{>}{=} x + y = 2$$
 $y = 2 - \times$

$$y = 4x + 7$$

intersection: (-1,3)

