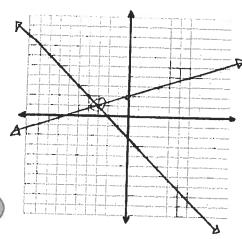
Name KEY

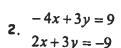
Chapter 3 Review (Sections 3.1, 3.2, 3.3)

Solve the following systems by graphing.

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

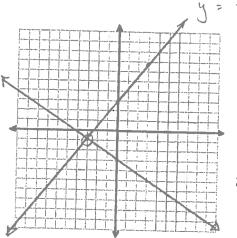
$$y = -x - 2$$





$$y = \frac{4}{3}x + 3$$

 $y = -\frac{2}{7}x - 3$



Solve the following systems by elimination.

3.
$$x - y = 11$$
$$2x + y = 19$$

$$3x = 30$$
 $10-y=11$
 $x = 10$
 $y = -1$

4.
$$-4x+9y=9$$

 $(x-3y=-6) \times 4$

Solve the following systems by substitution.

6.
$$x+3y=1$$
 $x=1-3$ $y=1-3(-3)$ $y=1-3(-3)$ $y=1-3(-3)$ $y=1-3(-3)$ $y=1-3(-3)$ $y=1-3(-3)$

$$-3(1-3) \cdot 3y = 15$$

$$-3 \cdot 19y \cdot 3y = 15$$

$$6y = -12$$

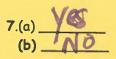
42 4 %

7. Without graphing, tell whether (-3,3) is a solution of each system of equations below. Show your work.

(a)
$$y \ge x + 2$$

 $3y < -6x + 6$

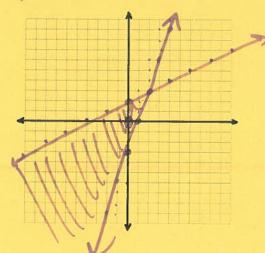
(b)
$$y-2x \le 1$$
 $y < -2x - 2$



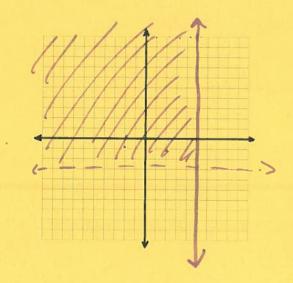
Graph the systems of inequalities.

12.
$$y \le \frac{1}{2}x + 2$$

 $y > 3x - 3$

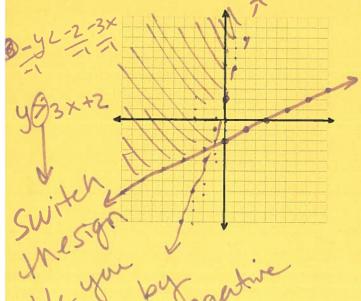


13.
$$y > -3$$



14. $2y - x \ge -4$ 3x - y < -2 34 > 4 - 2 y= 1x - 2

15. Is the point (0, 0) a solution to the system in Question #12?



- 16. Is the point (2, -1) a solution to the system in Question #13?
- 17. Is the point (-3, 2) a solution to the system in Question #14?