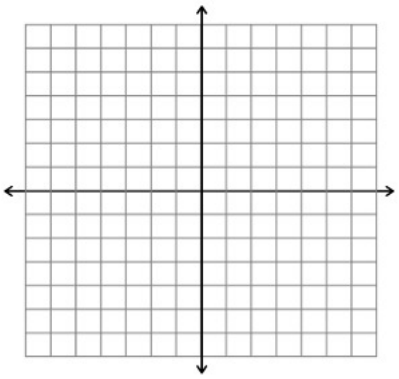
Lesson 3.3 Worksheet

Name: _____

Graph the system of inequalities.

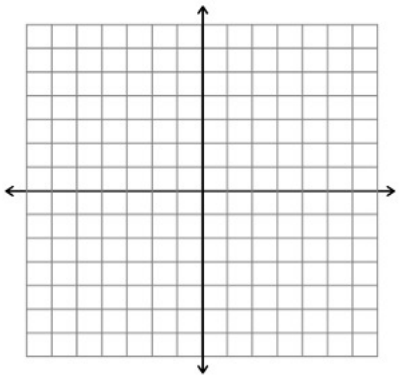
1.) $x > -1$

$x < 3$



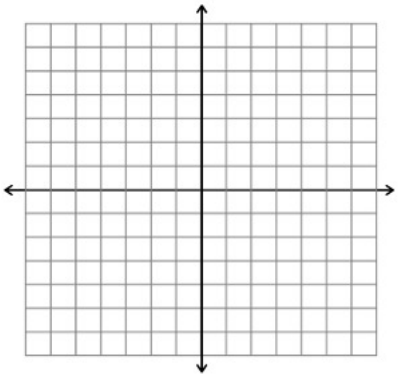
2.) $y \geq 5$

$y \leq 1$



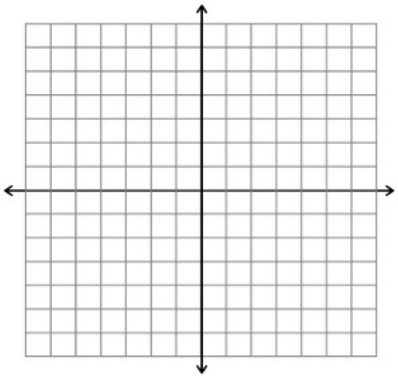
3.) $y < 7$

$y > |x|$



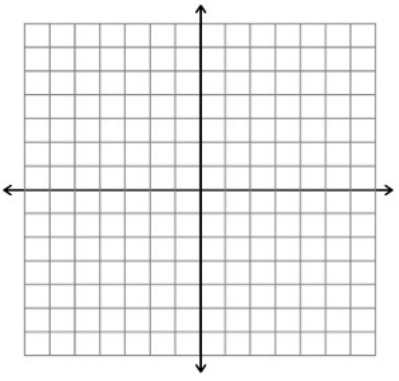
4.) $-x \geq y$

$-x + y \geq -5$



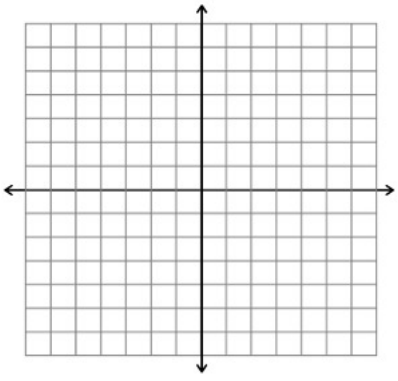
5.) $x + y \geq -3$

$-6x + 4y < 14$

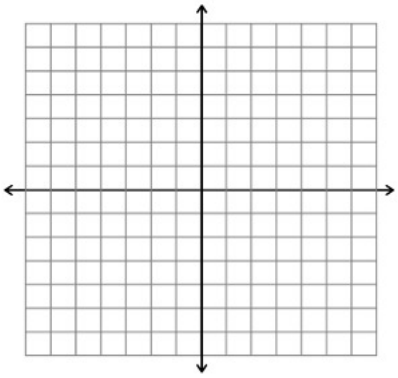


6.) $y > |x| - 4$

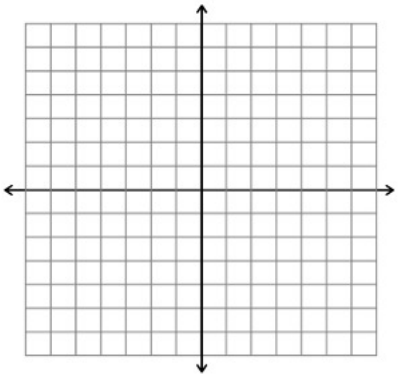
$3y < -2x + 9$



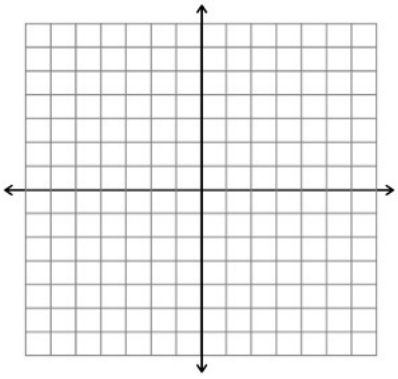
7.) $x \geq -8$
$y \leq -1$
$y < -2x - 4$



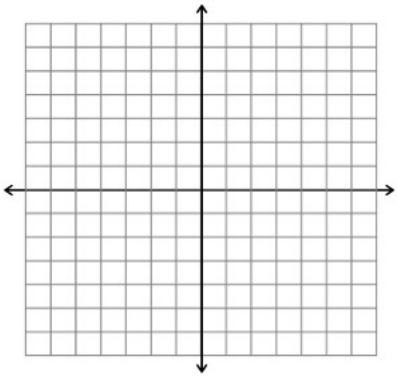
8.) $x + y < 5$
$2x - y > 0$
$-x + 5y > -20$



9.) $y \geq x$
$x + 3y < 5$
$2x + y \geq -3$

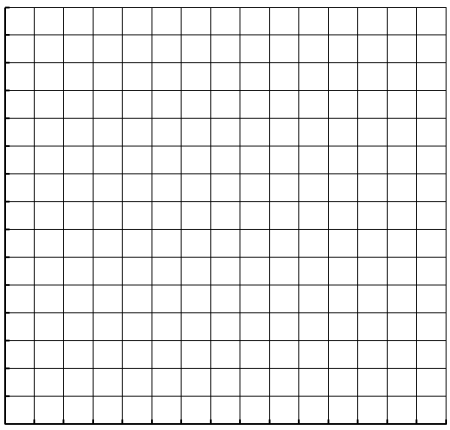


10.) $x + y < 5$
$x + y > -5$
$x - y < 4$
$x - y > -2$



11.) You can work at most 20 hours next week. You need to earn at least $92 to cover your weekly expenses. Your dog-walking job pays $7.50 per hour and your job as a car wash attendant pays $6 per hour.

a. Write a system of linear inequalities to model the situation.



b. Graph your system of inequalities.

c. Give three different combinations of hours that you could work at your different jobs and meet your requirements.