Basic Algebra Name_____

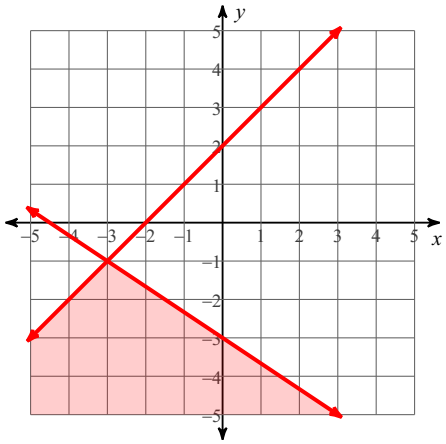
Ch 6.6 (B) Systems of Inequalities

Date_____ Period____

Sketch the solution to each system of inequalities.

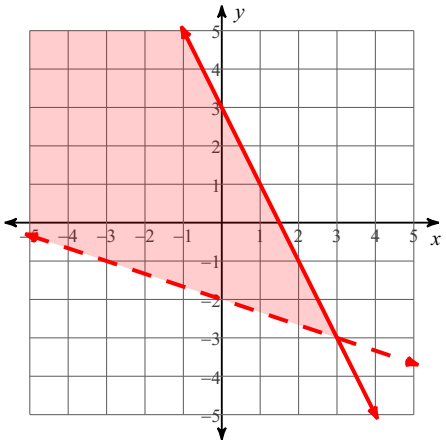
1) $y \le -\frac{2}{3}x - 3$

$y \le x + 2$



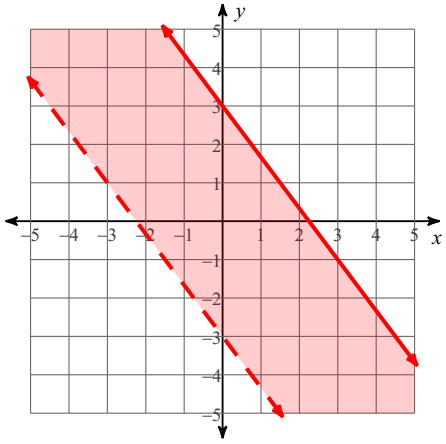
2) $y \le -2x + 3$

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



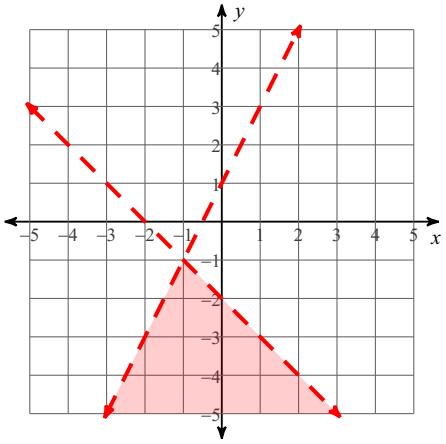
3) $y \le -\frac{4}{3}x + 3$

$y > -\frac{4}{3}x - 3$

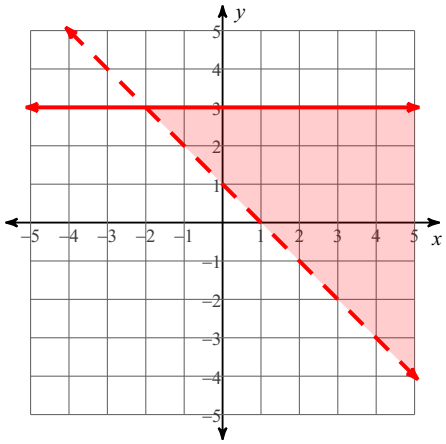


4) $y < 2x + 1$

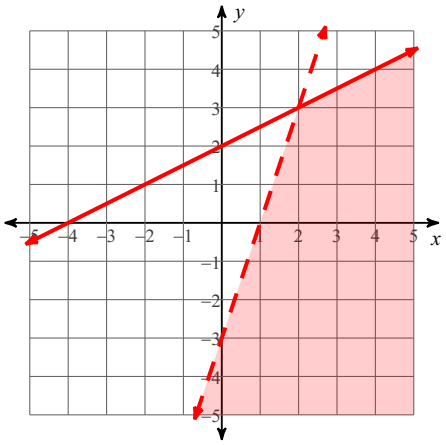
$y < -x - 2$



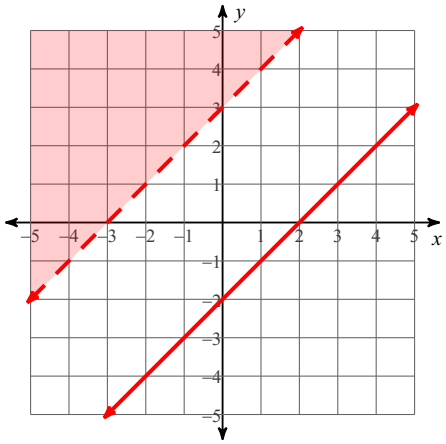
5) $y \leq 3$
$y > -x + 1$



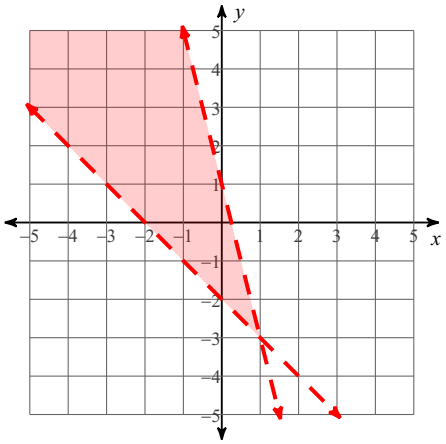
6) $y \leq \frac{1}{2}x + 2$
$y < 3x - 3$



7) $y \geq x - 2$
$y > x + 3$

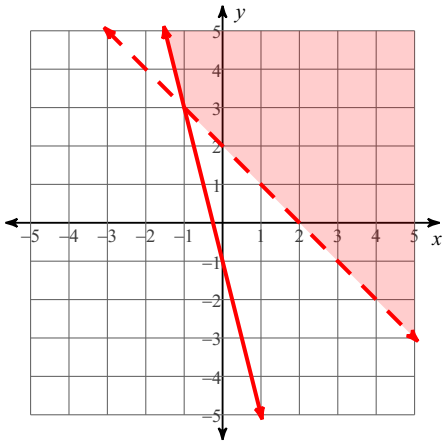


8) $y > -x - 2$
$y < -4x + 1$

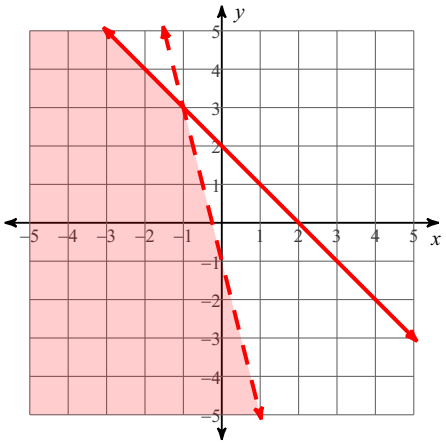


Rewrite each inequality. Then sketch the solution to each system of inequalities.

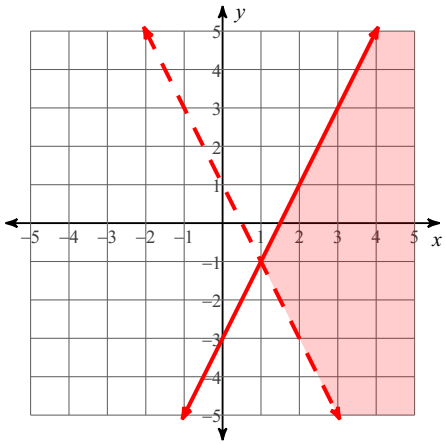
9) $x + y > 2$
$4x + y \geq -1$



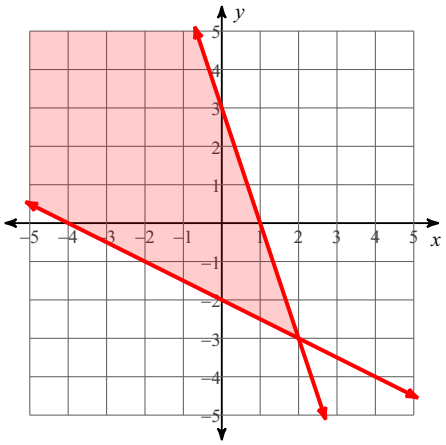
10) $4x + y < -1$
$x + y \leq 2$



11) $2x + y > 1$
$2x - y \geq 3$



12) $x + 2y \geq -4$
$3x + y \leq 3$



13) The safety requiremtnets at a racecar driving school is that a student must be under 79 inches tall and under 295 lbs. This can be represented by two inequalities $w < 295$ and $h < 79$. Name one possible solution for a student's height and weight.

Possible solution: 180 lbs and 65 inches tall