Algebra 2 - Name_____ ID: 1

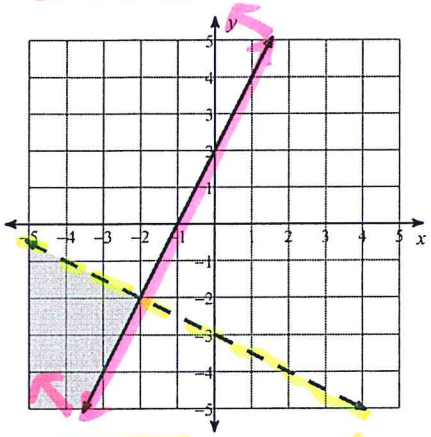
Systems of Linear Inequalities Practice 2

Date_____ Period____

Sketch the solution to each system of inequalities. Then state one solution to the system. (ie - give an ordered pair from the shaded region.)

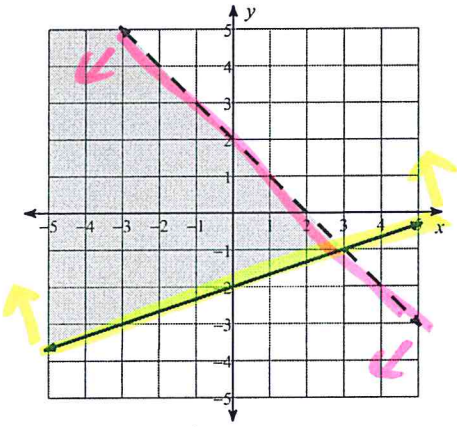
1) $y < -\frac{1}{2}x - 3$

$y \geq 2x + 2$



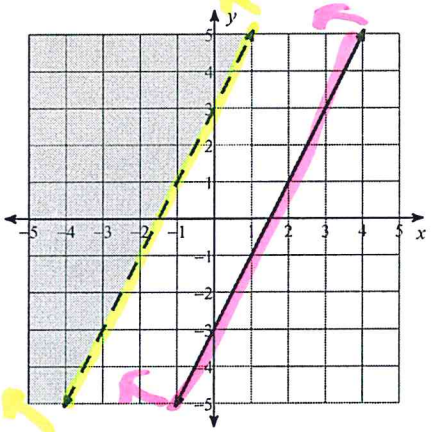
2) $y \geq \frac{1}{3}x - 2$

$y < -x + 2$



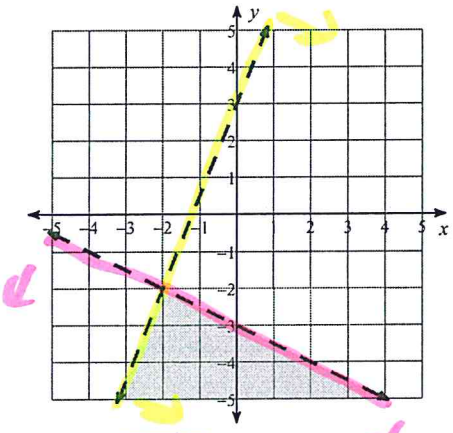
3) $y > 2x + 3$

$y \geq 2x - 3$



4) $y < \frac{5}{2}x + 3$

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

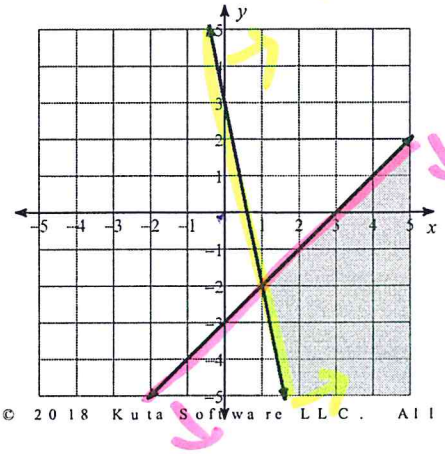


5) $y \geq -5x + 3$

$y \leq x - 3$

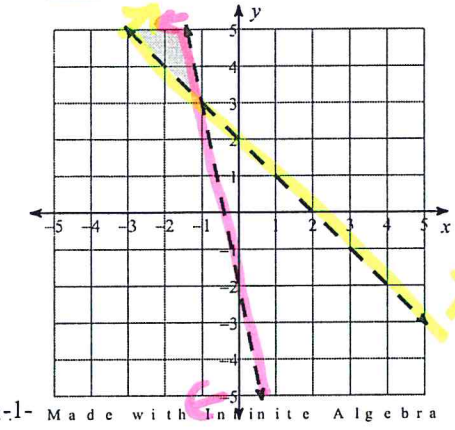
$0 \geq -5(0)+3$

$0 \leq 0-3$ $0 \leq -3$



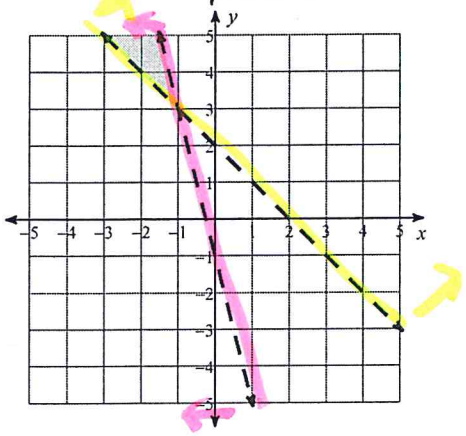
6) $y > -x + 2$

$y < -5x - 2$



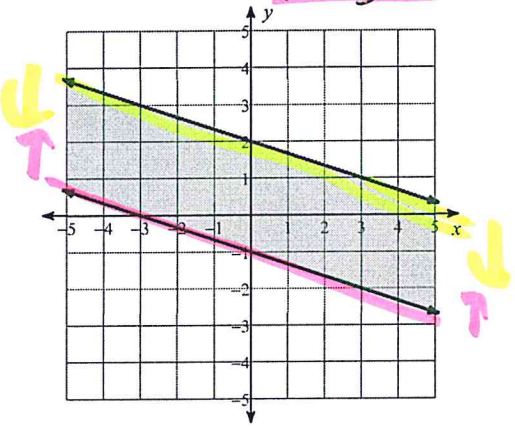
7) $x + y > 2$
$4x + y < -1$

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



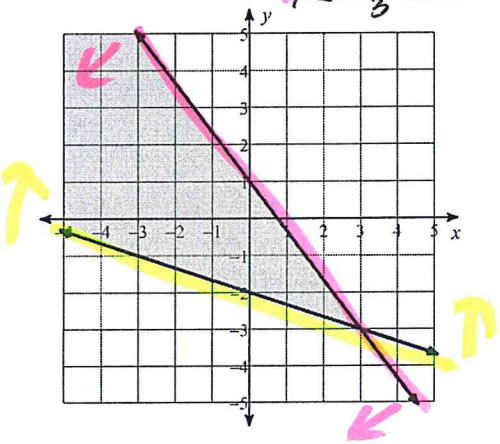
8) $x + 3y \leq 6$
$x + 3y \geq -3$

$y \leq -\frac{1}{3}x + 2$
$y \geq -\frac{1}{3}x - 1$



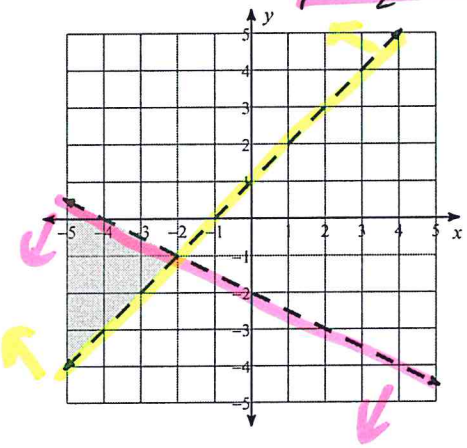
9) $x + 3y \geq -6$
$4x + 3y \leq 3$

$y \geq -\frac{1}{3}x - 2$
$y \leq -\frac{4}{3}x + 1$



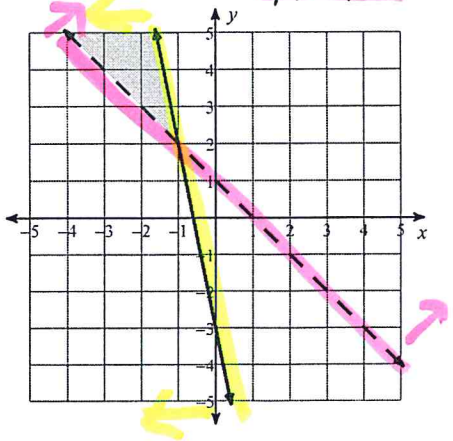
10) $x - y < -1$
$x + 2y < -4$

$y > x + 1$
$y < -\frac{1}{2}x - 2$



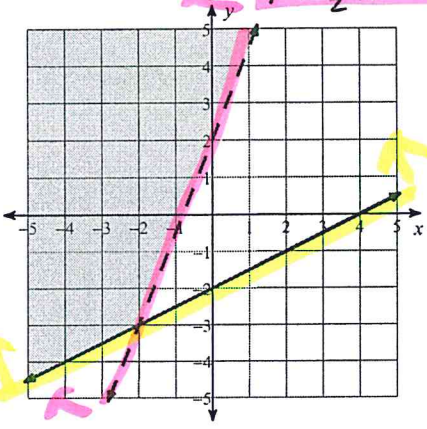
11) $5x + y \leq -3$
$x + y > 1$

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



12) $x - 2y \leq 4$
$5x - 2y < -4$

$y \geq \frac{1}{2}x - 2$
$y > \frac{5}{2}x + 2$



Pr 2