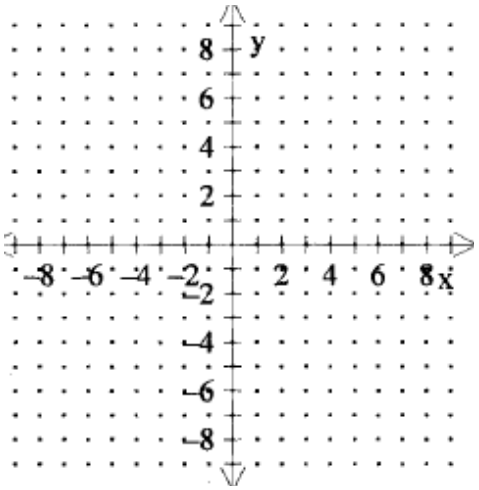
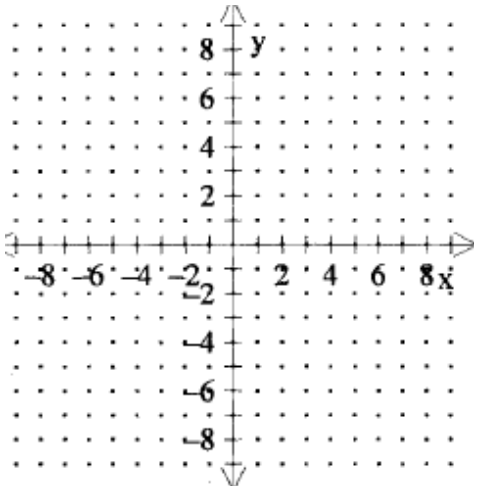
Geometry—Algebra Review A8 HW#_____ Name_____
Graphing Systems and Linear Inequalities

Graph each system of equations to find the intersection point of the lines.
Give answers in (*x*, *y*) form. Check your solutions!

1. $x - y = -1$
   $3x + 2y = 12$

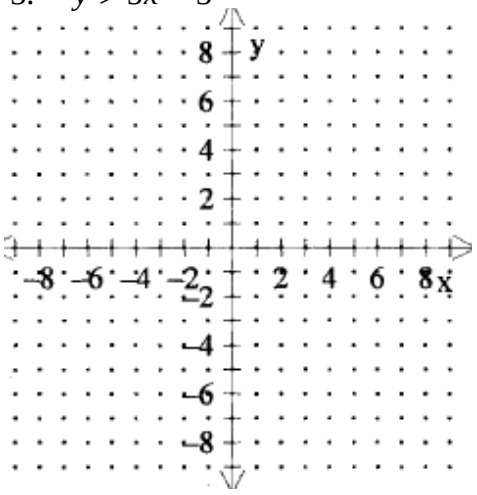


2. $6x - 3y = -15$
   $2x + y = -3$

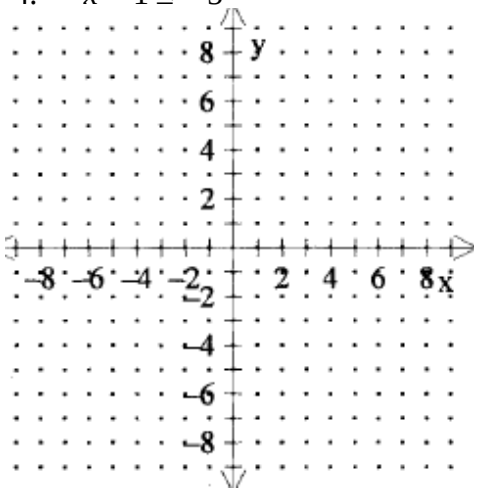


Graph each inequality.

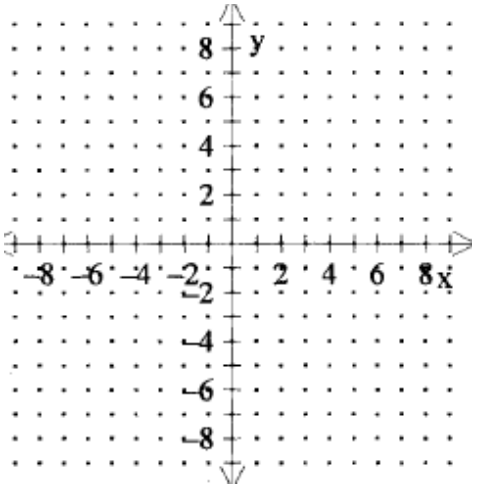
3. $y > 5x - 3$



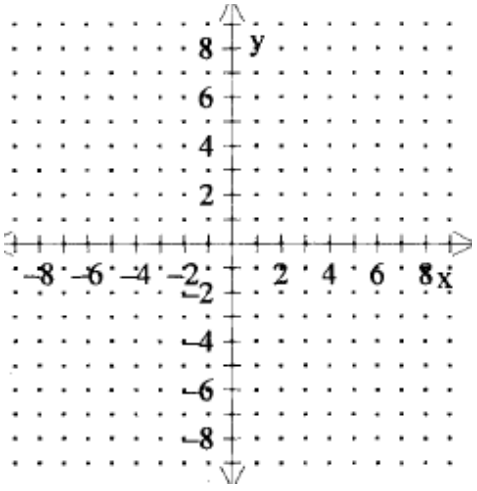
4. $x - 1 \leq -5$



5. $x - 2y \geq 8$



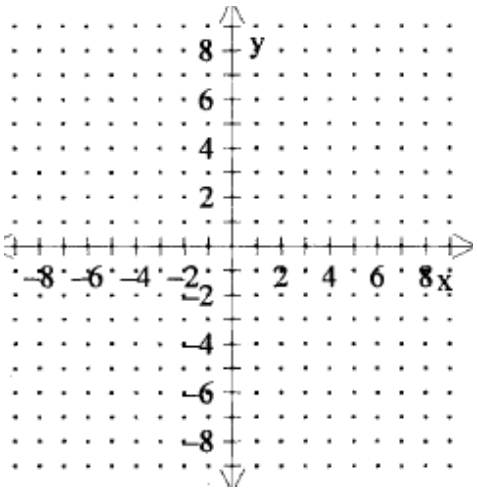
6. $6x + 5y < -30$



7. Graph the system of inequalities to find the points that are common to both regions. Shade the area in common darker.

$y > -2$

$4x + 2y \leq 8$



8. Plot the points and draw segments to form trapezoid GOSH. Then find the area of the trapezoid.
G(-4, 2), O (0, 6), S(3, 6), H(8, 2)