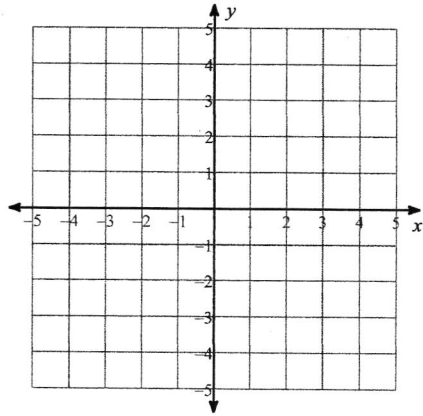


Solving Systems of inequalities by graphing

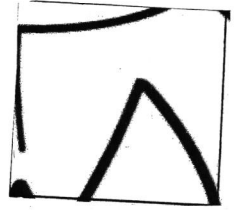
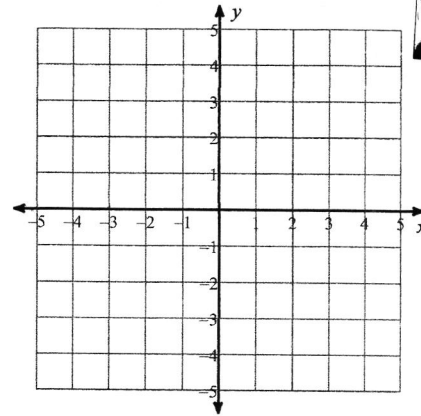
Sketch the solution to each system of inequalities.

1)  $y > \frac{1}{3}x + 3$

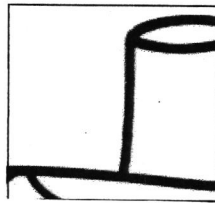
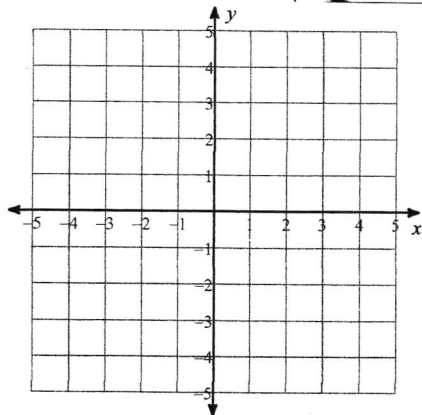
$y < -\frac{4}{3}x - 2$



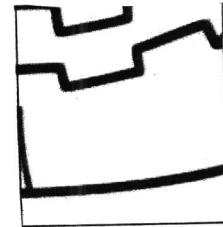
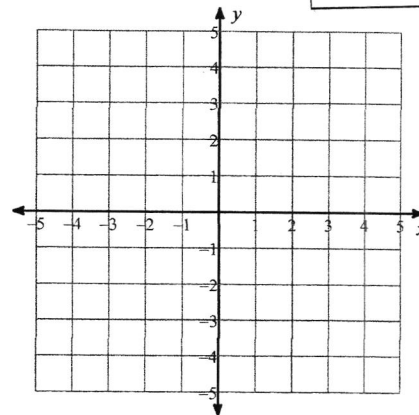
2)  $y < -5x + 2$   
 $y > -x - 2$



3)  $y \geq -1$   
 $y < x - 3$

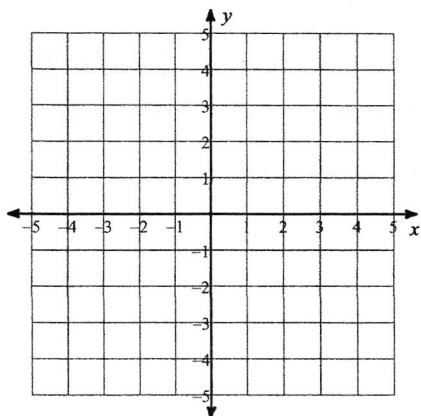


4)  $y > 2x - 3$   
 $y \leq \frac{1}{3}x + 2$



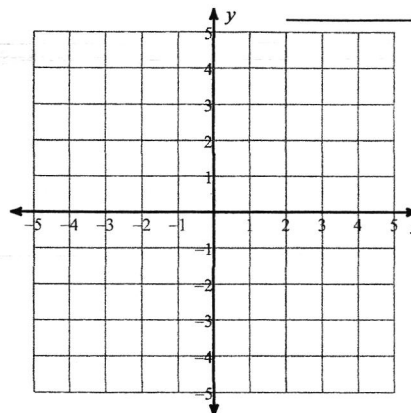
$$5) y \geq -\frac{2}{3}x + 1$$

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



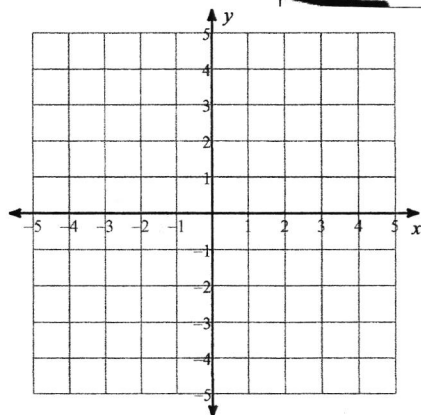
$$6) y > -x - 2$$

$$y < 4x + 3$$



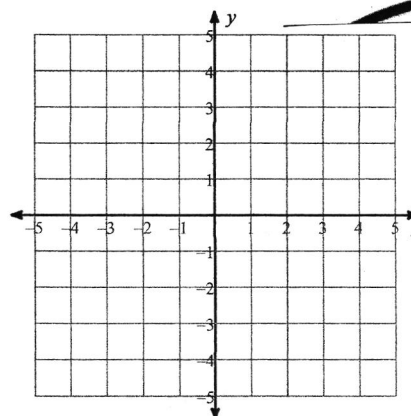
$$7) y > \frac{1}{2}x + 2$$

$$y \leq \frac{5}{2}x - 2$$



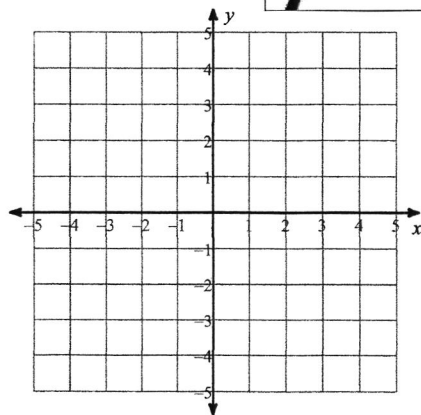
$$8) y \geq 2x + 1$$

$$y \geq -2x - 3$$



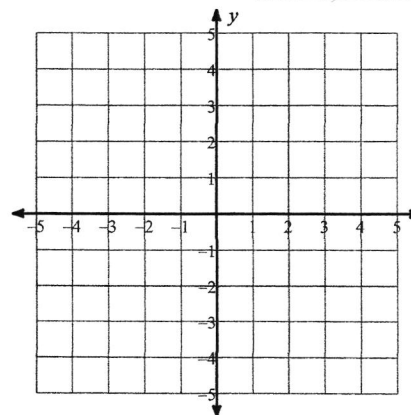
$$9) y < \frac{1}{2}x - 1$$

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



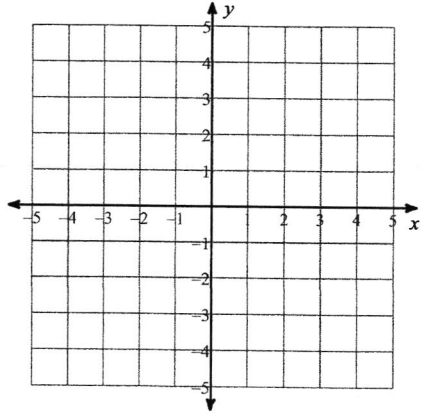
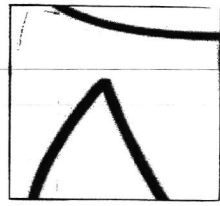
$$10) y \leq \frac{1}{2}x - 2$$

$$y \leq \frac{5}{2}x + 2$$



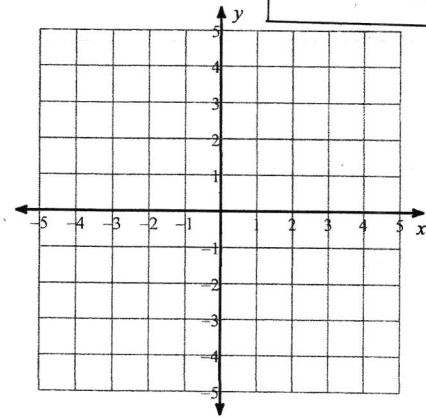
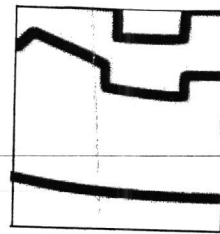
$$11) y > \frac{3}{2}x - 2$$

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



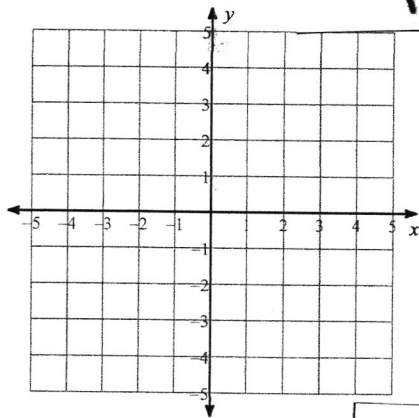
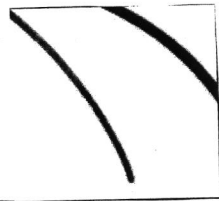
$$12) y \leq -x + 1$$

$$y > -4x - 2$$



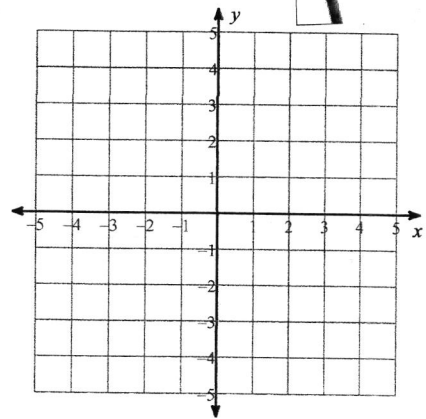
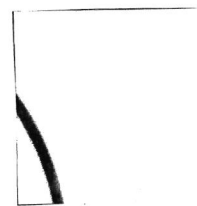
$$13) y \leq -2x + 2$$

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



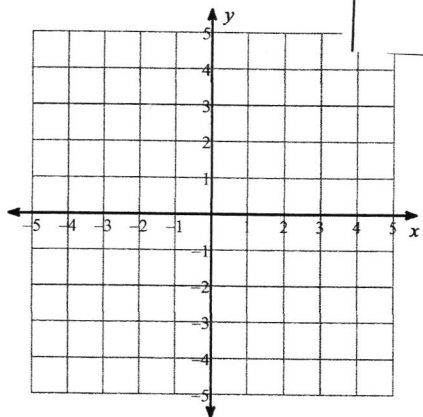
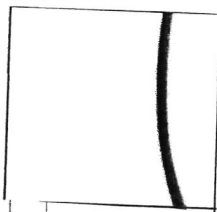
$$14) y > -x + 3$$

$$y \leq 4x - 2$$



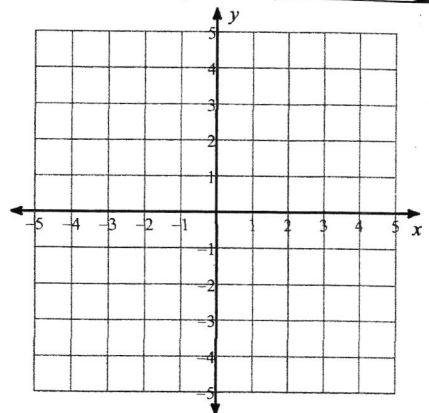
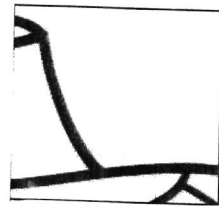
$$15) y < -x + 2$$

$$y \leq -x - 1$$



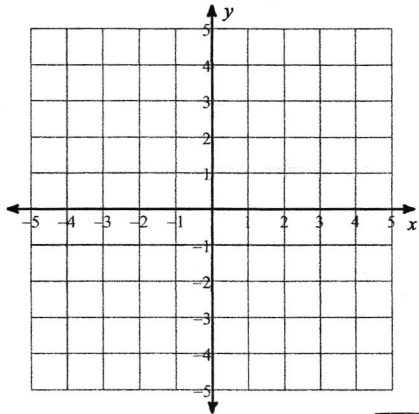
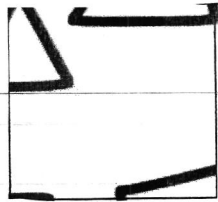
$$16) y \leq \frac{1}{3}x + 2$$

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



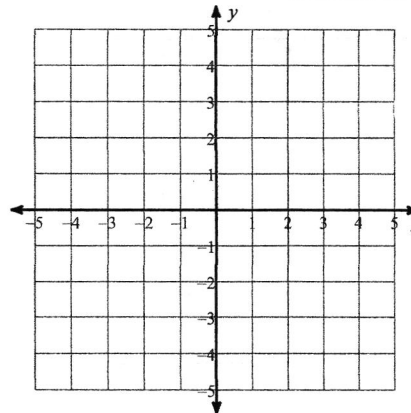
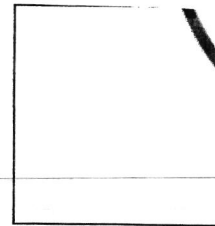
$$17) y \leq \frac{5}{3}x - 2$$

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



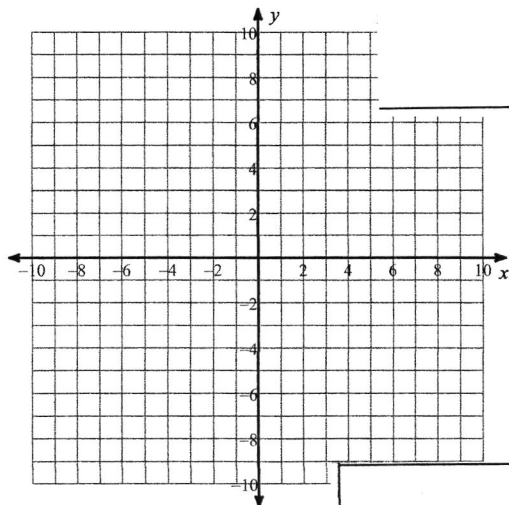
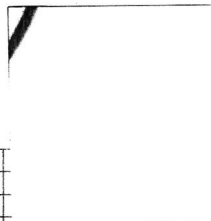
$$18) y > 2x + 3$$

$$y \geq 1$$



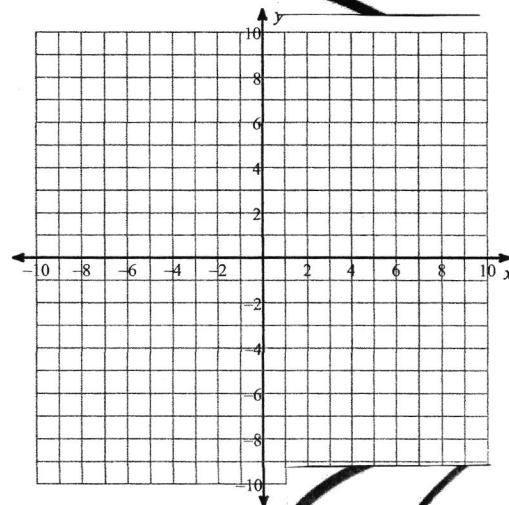
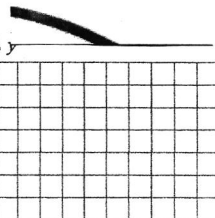
$$19) x + 3y > -3$$

$$x - 2y > 12$$



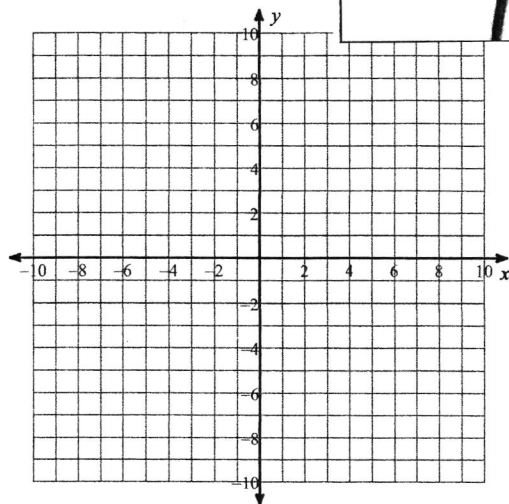
$$20) x + 2y \leq -12$$

$$x - y > -6$$



$$21) 2x - y \leq 4$$

$$y > -8$$



$$22) 7x - 5y \leq 10$$

$$x - 5y < -20$$

