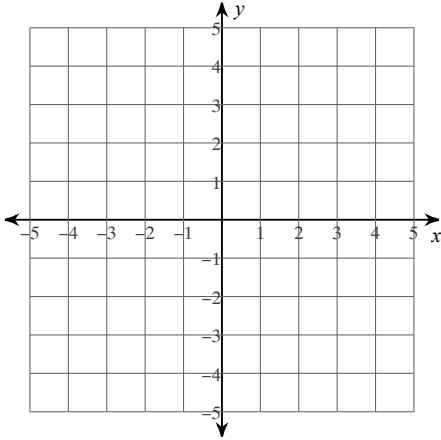


Assignment

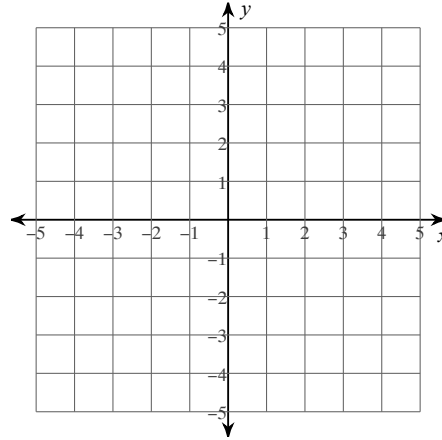
Date _____ Period _____

Sketch the solution to each system of inequalities.

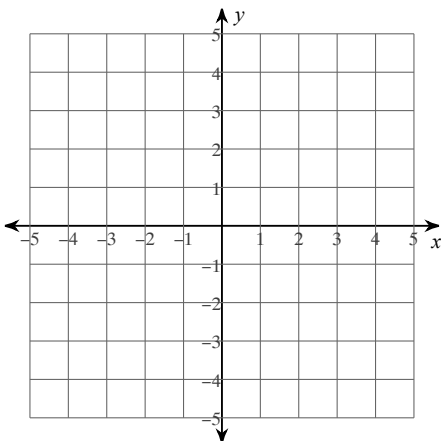
1) $y \leq 1$
 $x + y \leq 3$



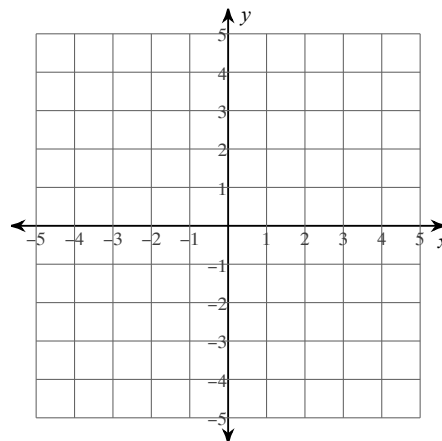
2) $2x + 3y \geq -3$
 $x > 3$



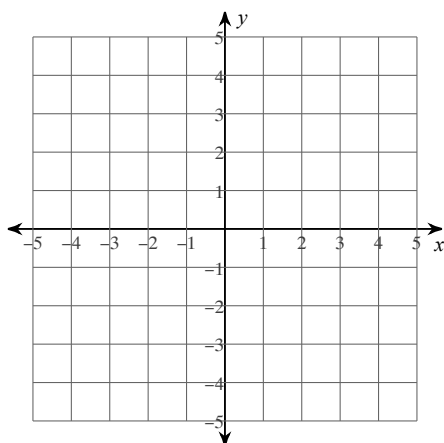
3) $x + 3y \leq 6$
 $2x + y \leq -3$



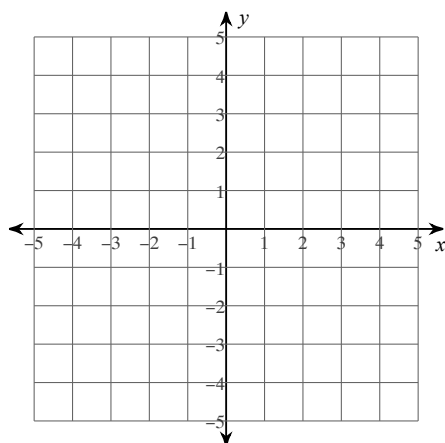
4) $x - 2y > -4$
 $3x - y \geq 3$



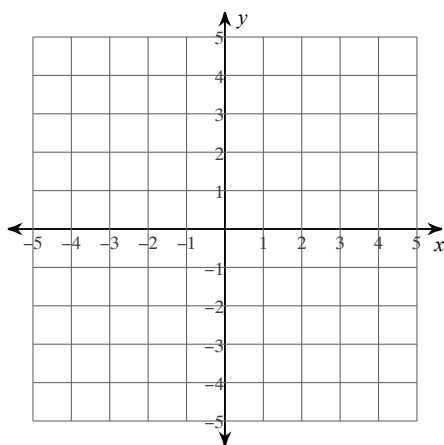
5) $4x - y > -1$
 $x - y > 2$



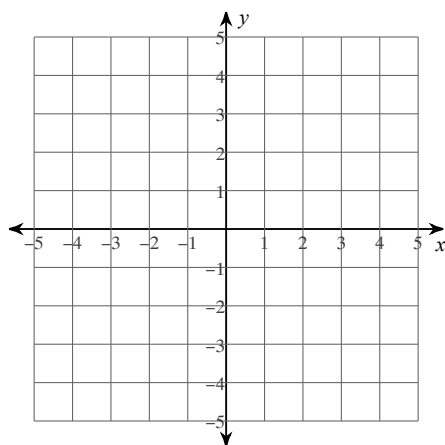
6) $y \leq -3$
 $5x - 2y \leq -4$



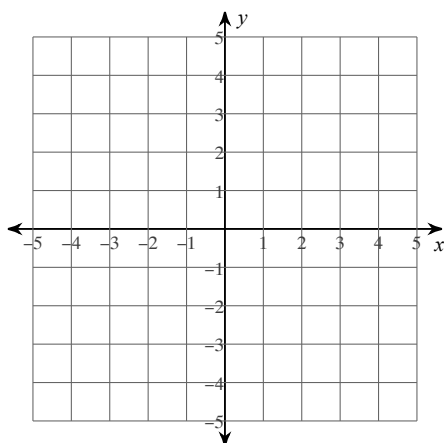
7) $x - 2y \leq 6$
 $x + 2y < -2$



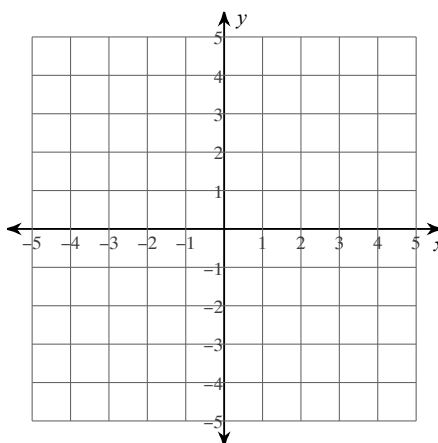
8) $x - 2y \geq 4$
 $3x + 2y < 4$



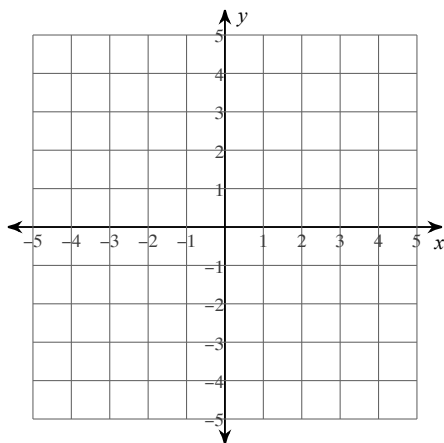
9) $5x - 2y \geq -4$
 $x - 2y \leq 4$



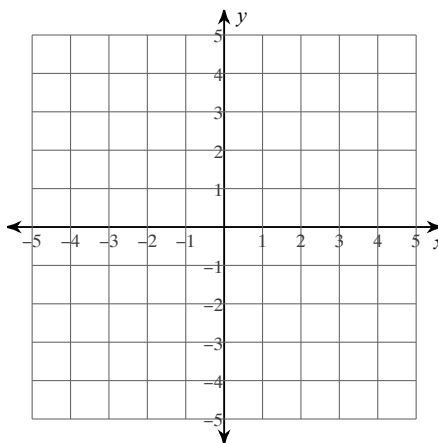
10) $x - y \geq 2$
 $x \geq 1$



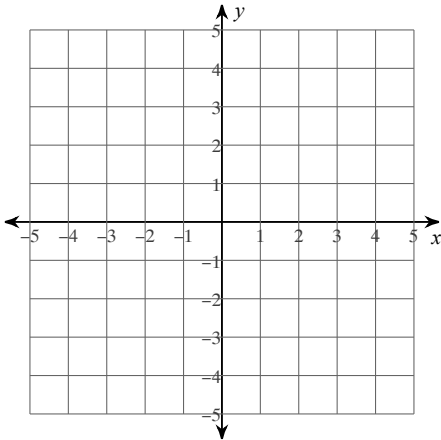
11) $x - 3y \leq 6$
 $4x - 3y < -3$



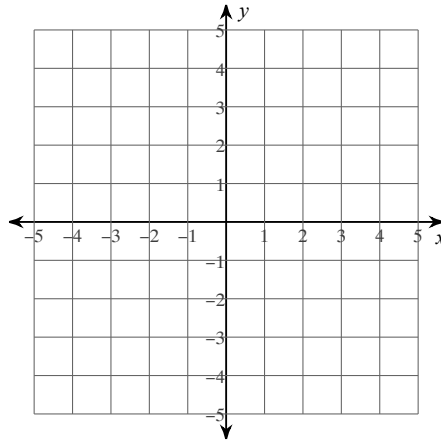
12) $y > 1$
 $2x + y \leq -1$



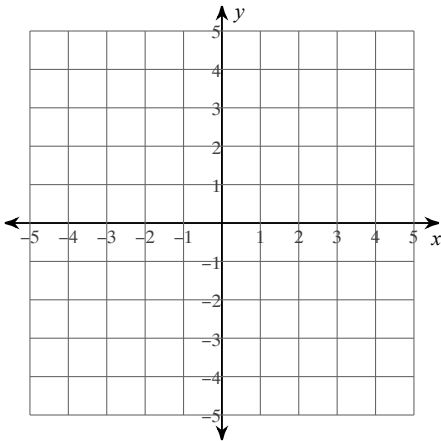
13) $2x + y \leq -3$
 $4x - y < -3$



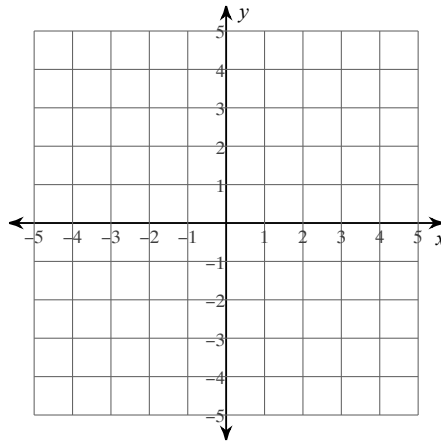
14) $x + 3y > 9$
 $x - y < 1$



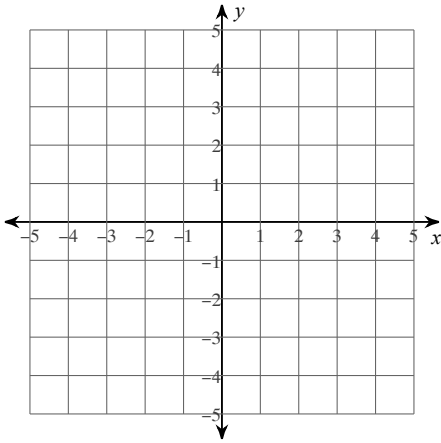
15) $2x + y \leq 1$
 $2x - y \leq 3$



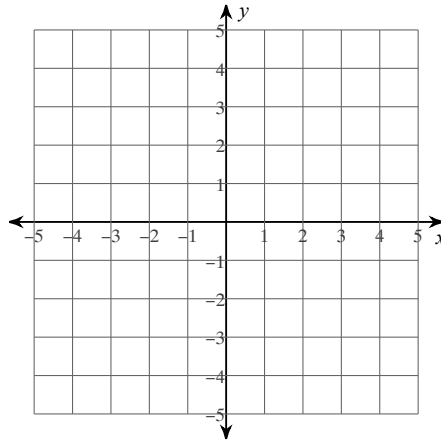
16) $3x - 2y \geq -4$
 $x + 2y > -4$



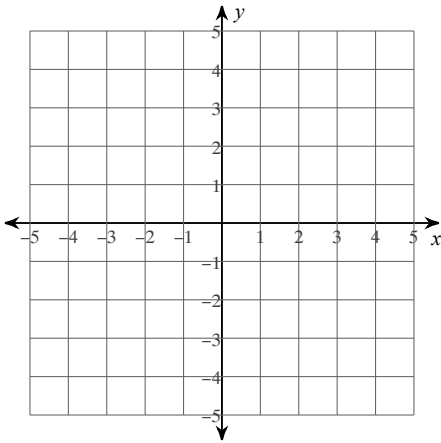
17) $2x + y > 3$
 $x - 2y \leq 4$



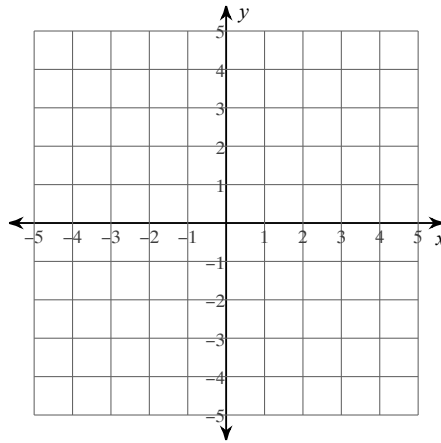
18) $x - 3y \leq -6$
 $4x - 3y < 3$



19) $x - 2y \geq -2$
 $x + 2y \geq 6$

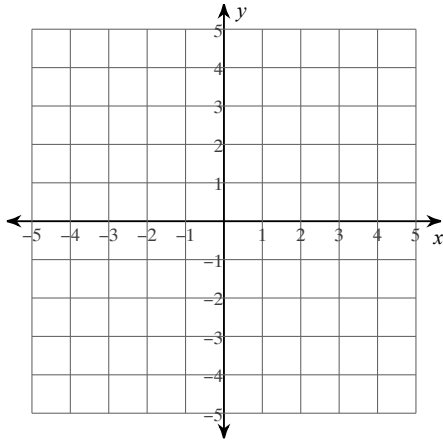


20) $x - y < 3$
 $x + y > -1$



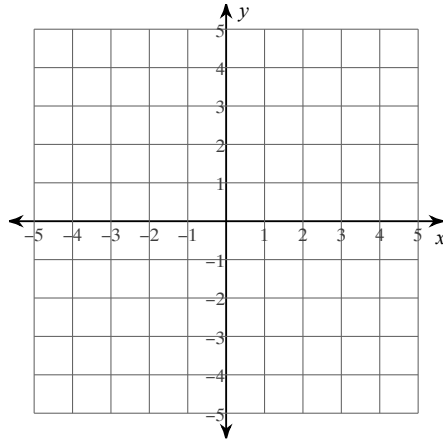
$$21) y \leq \frac{1}{3}x + 2$$

$$y < -x - 2$$



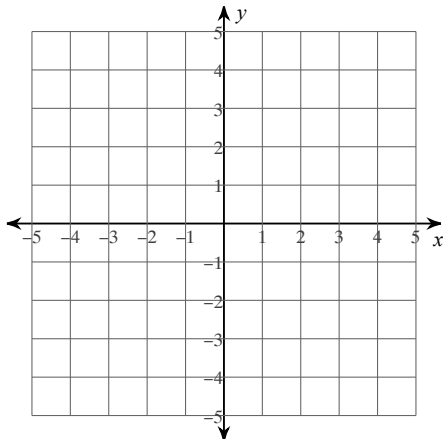
$$22) y \geq -\frac{1}{2}x + 2$$

$$y > -2x - 1$$



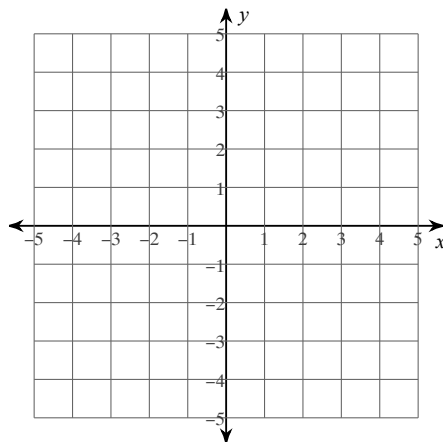
$$23) y \geq -2x - 1$$

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



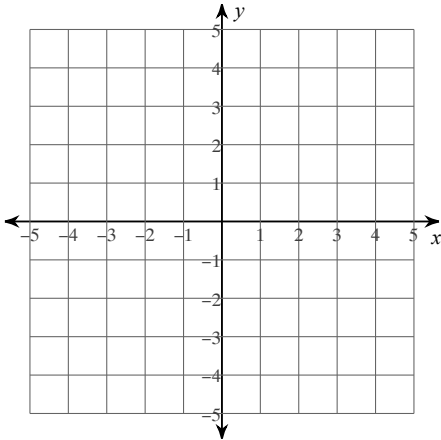
$$24) y \geq -\frac{5}{2}x - 2$$

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



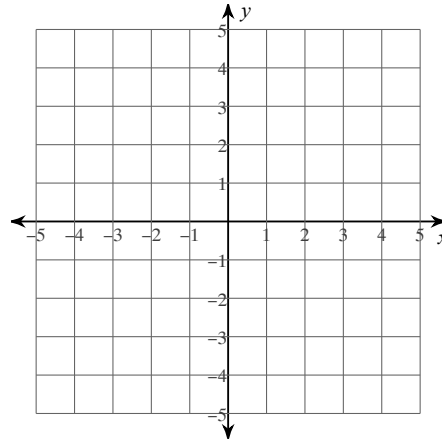
$$25) y > -\frac{1}{2}x + 3$$

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



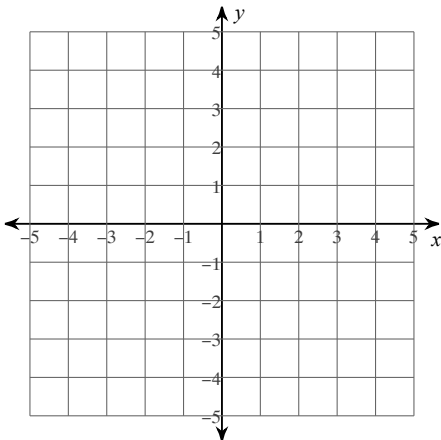
$$26) y \geq \frac{1}{3}x + 2$$

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



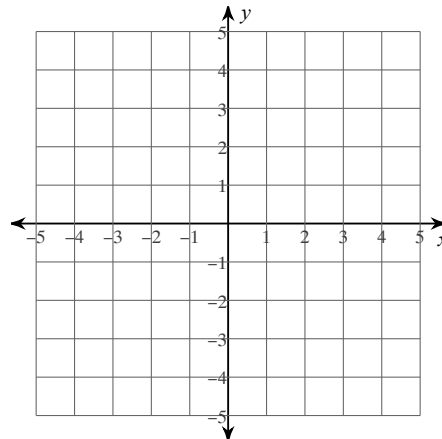
$$27) y < \frac{2}{3}x - 3$$

$$y > -x + 2$$



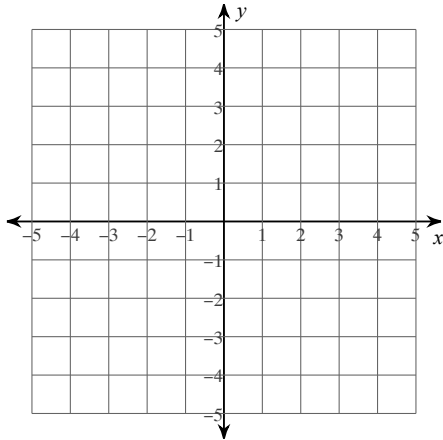
$$28) y \geq -x + 1$$

$$y \leq -5x - 3$$



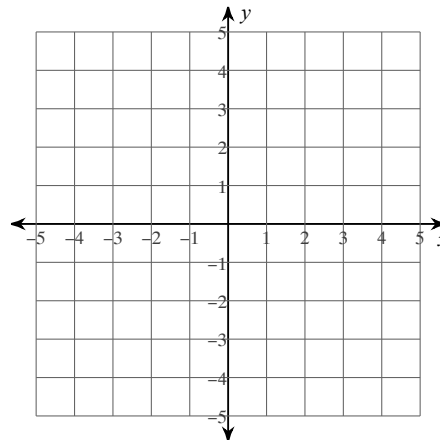
$$29) y > \frac{2}{3}x - 3$$

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



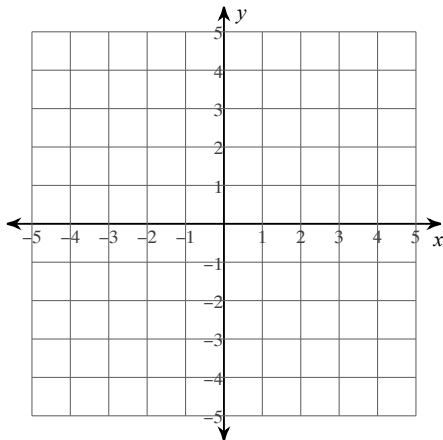
$$30) y > -4x - 1$$

$$y \leq -x + 2$$



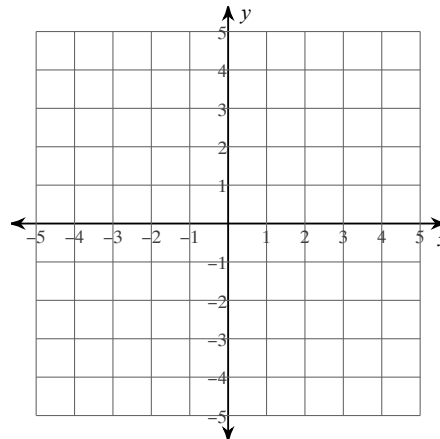
$$31) y \geq -\frac{2}{3}x - 3$$

$$y \geq x + 2$$



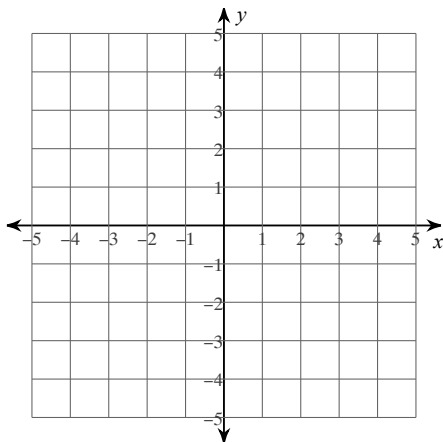
$$32) y > -x - 2$$

$$y > 4x + 3$$



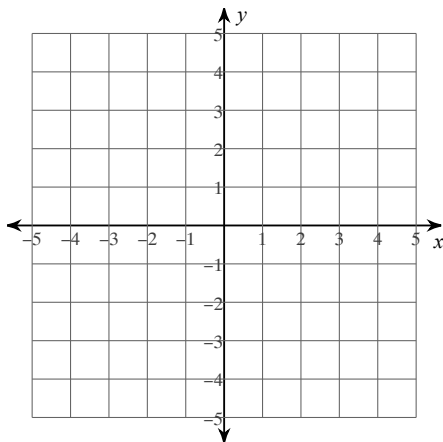
$$33) y \geq -\frac{5}{3}x - 3$$

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



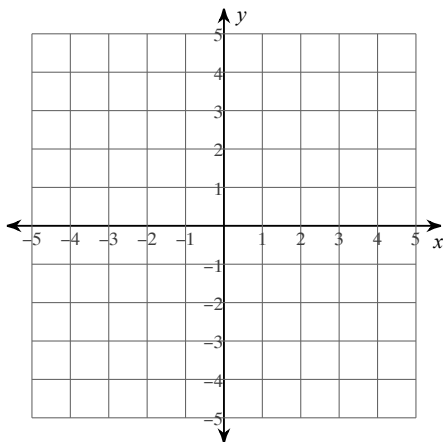
$$34) y < -\frac{2}{3}x + 1$$

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



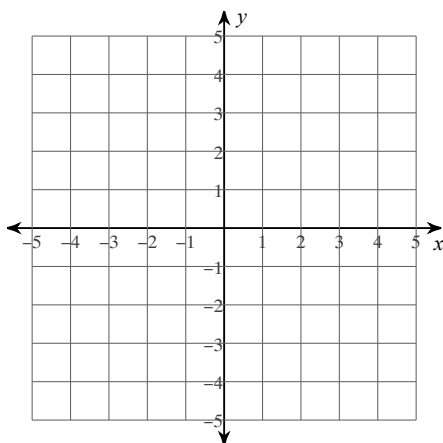
$$35) y \leq -\frac{1}{3}x - 2$$

$$y < -2x + 3$$



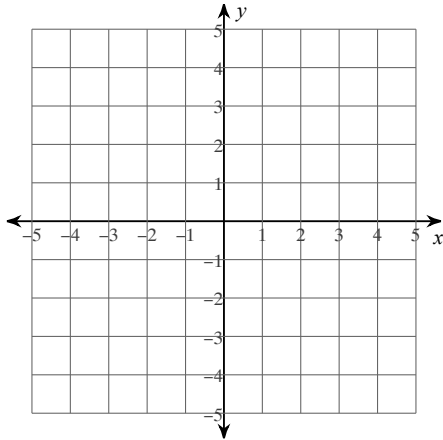
$$36) y > -\frac{5}{3}x + 2$$

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



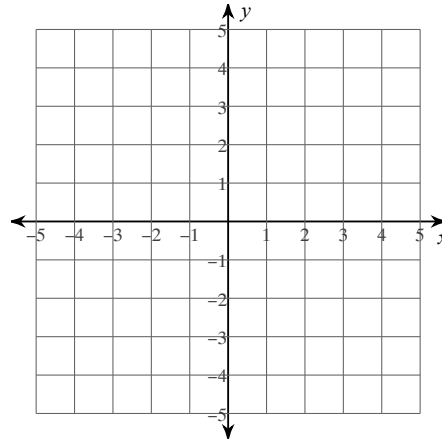
$$37) y \leq x - 1$$

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



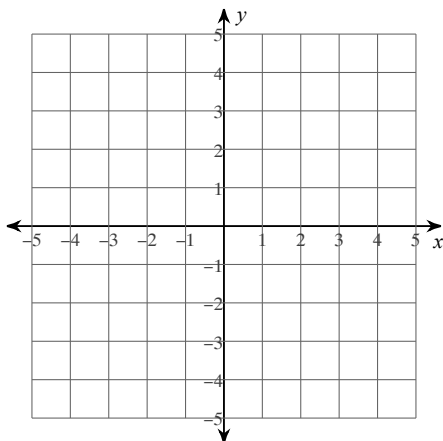
$$38) y \geq \frac{5}{3}x + 3$$

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



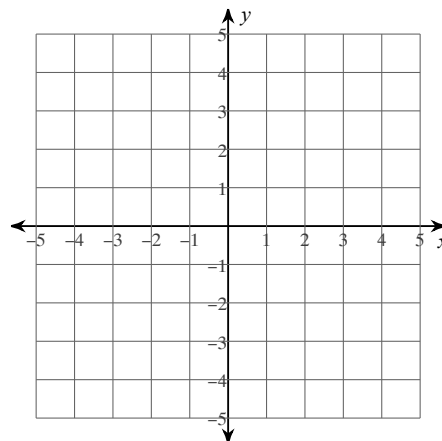
$$39) y > -\frac{1}{2}x + 2$$

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



$$40) y > \frac{1}{3}x + 2$$

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

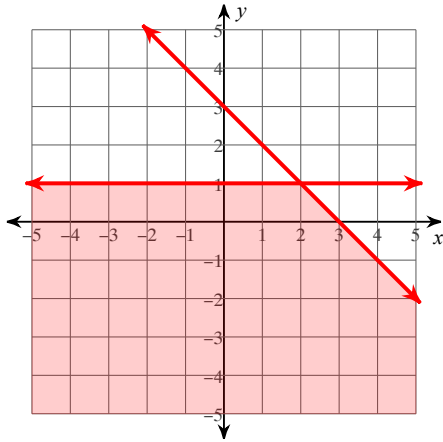


Assignment

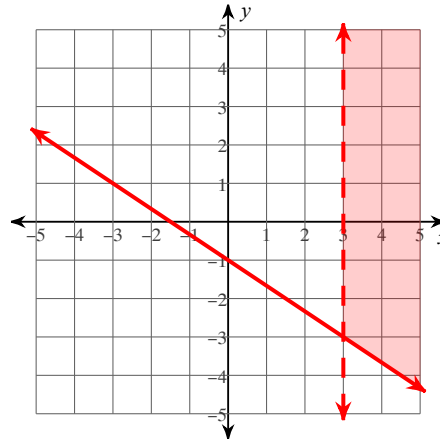
Date _____ Period _____

Sketch the solution to each system of inequalities.

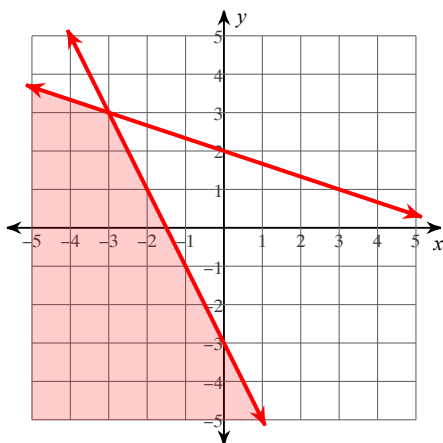
$$1) \begin{cases} y \leq 1 \\ x + y \leq 3 \end{cases}$$



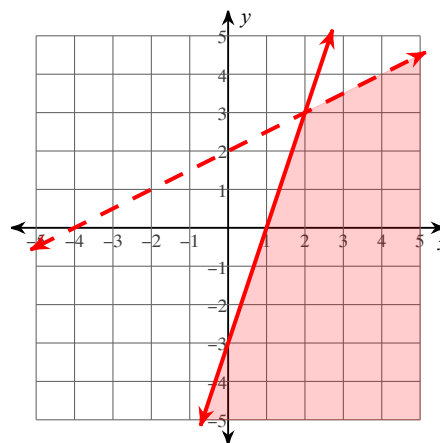
$$2) \begin{cases} 2x + 3y \geq -3 \\ x > 3 \end{cases}$$



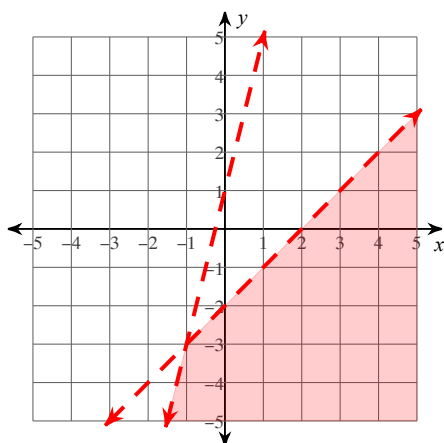
$$3) \begin{cases} x + 3y \leq 6 \\ 2x + y \leq -3 \end{cases}$$



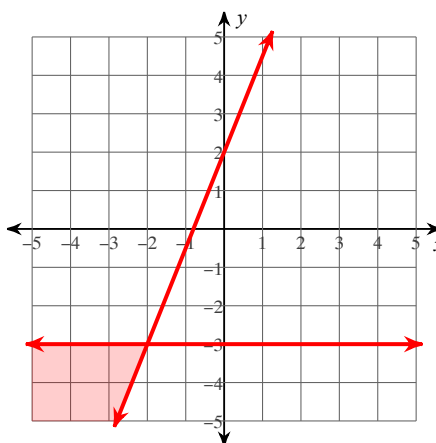
$$4) \begin{cases} x - 2y > -4 \\ 3x - y \geq 3 \end{cases}$$



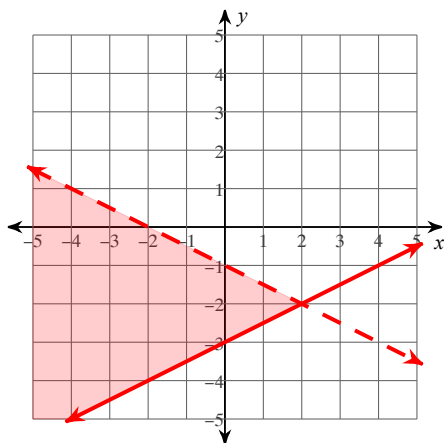
5) $4x - y > -1$
 $x - y > 2$



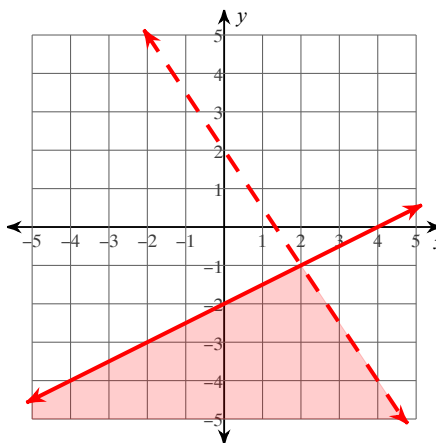
6) $y \leq -3$
 $5x - 2y \leq -4$



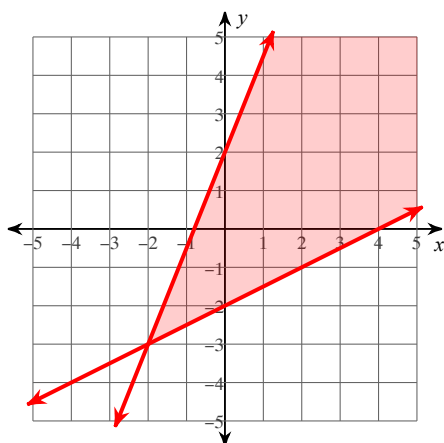
7) $x - 2y \leq 6$
 $x + 2y < -2$



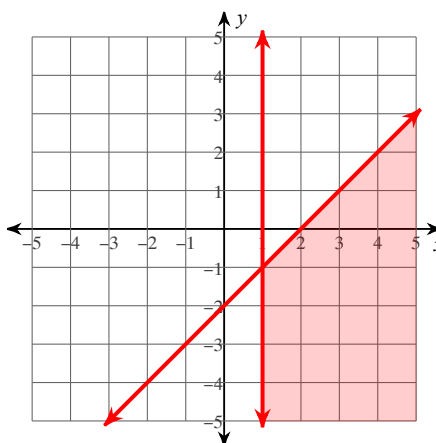
8) $x - 2y \geq 4$
 $3x + 2y < 4$



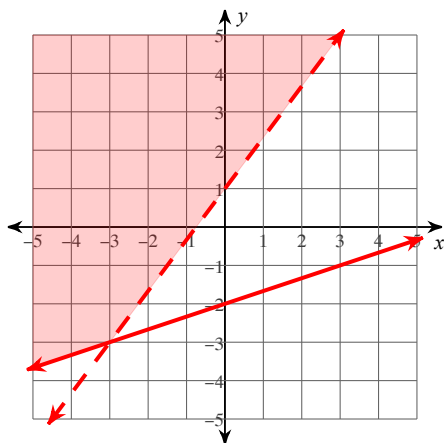
9) $5x - 2y \geq -4$
 $x - 2y \leq 4$



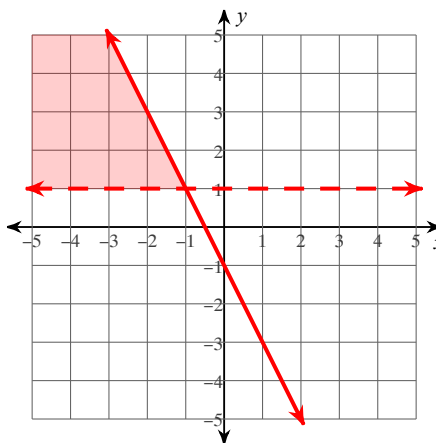
10) $x - y \geq 2$
 $x \geq 1$



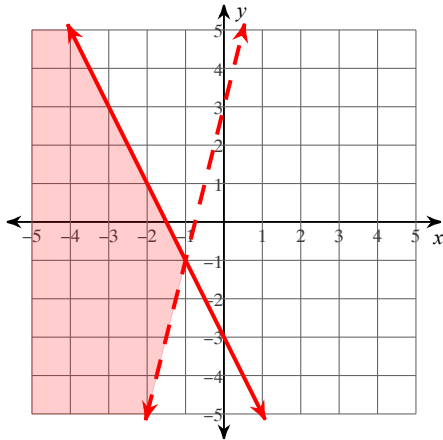
11) $x - 3y \leq 6$
 $4x - 3y < -3$



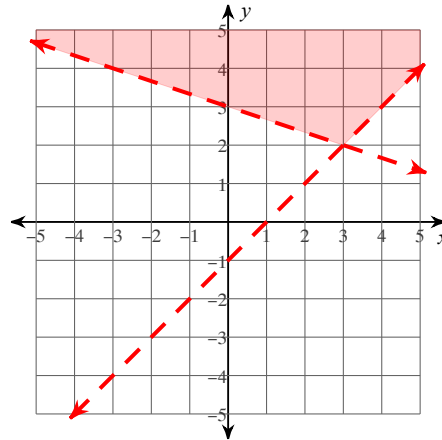
12) $y > 1$
 $2x + y \leq -1$



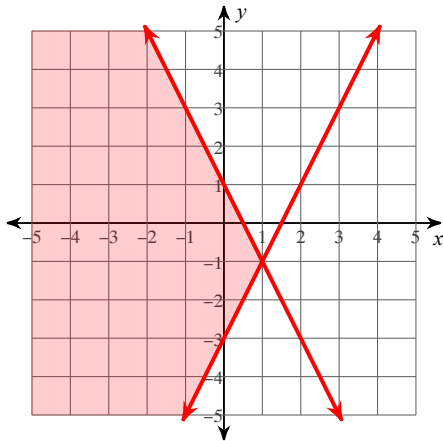
13) $2x + y \leq -3$
 $4x - y < -3$



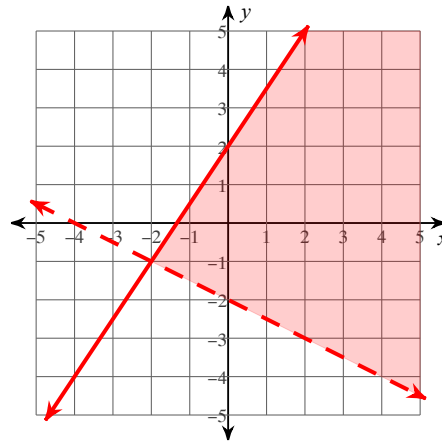
14) $x + 3y > 9$
 $x - y < 1$



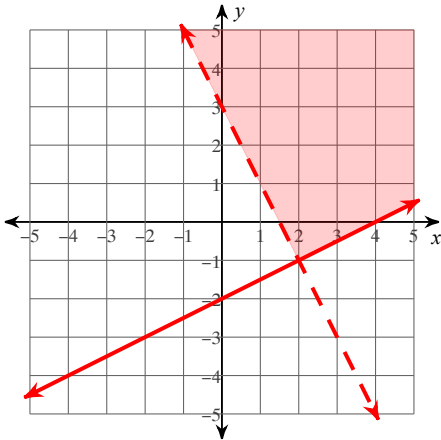
15) $2x + y \leq 1$
 $2x - y \leq 3$



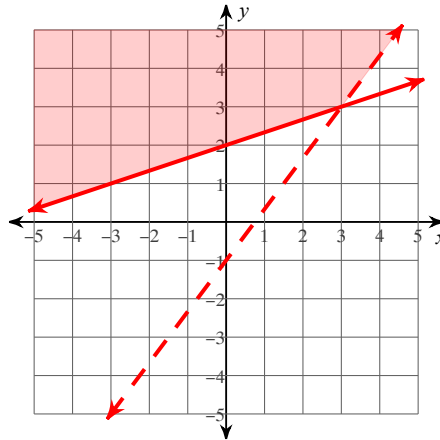
16) $3x - 2y \geq -4$
 $x + 2y > -4$



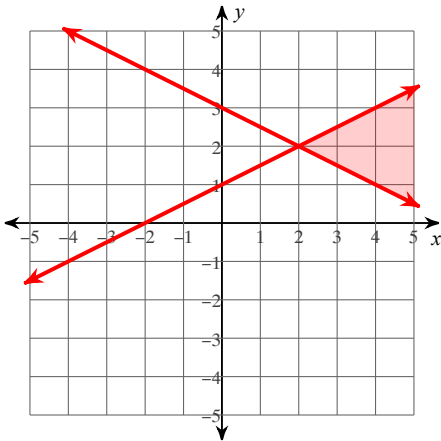
$$17) \begin{cases} 2x + y > 3 \\ x - 2y \leq 4 \end{cases}$$



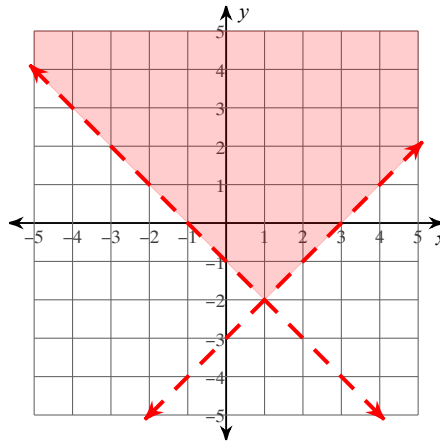
$$18) \begin{cases} x - 3y \leq -6 \\ 4x - 3y < 3 \end{cases}$$



$$19) \begin{cases} x - 2y \geq -2 \\ x + 2y \geq 6 \end{cases}$$

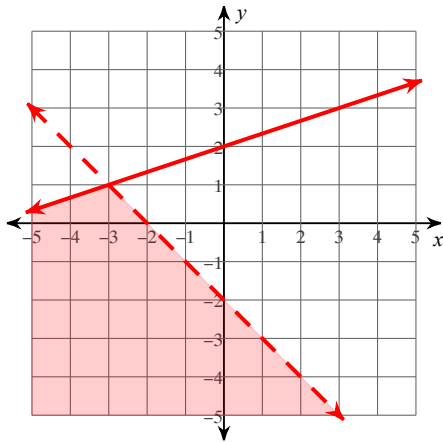


$$20) \begin{cases} x - y < 3 \\ x + y > -1 \end{cases}$$



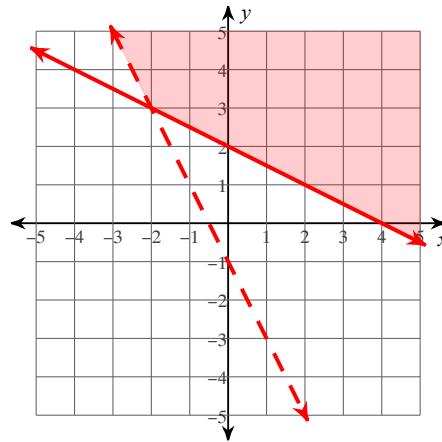
$$21) y \leq \frac{1}{3}x + 2$$

$$y < -x - 2$$



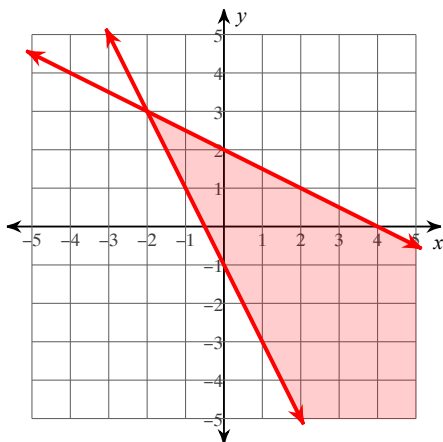
$$22) y \geq -\frac{1}{2}x + 2$$

$$y > -2x - 1$$



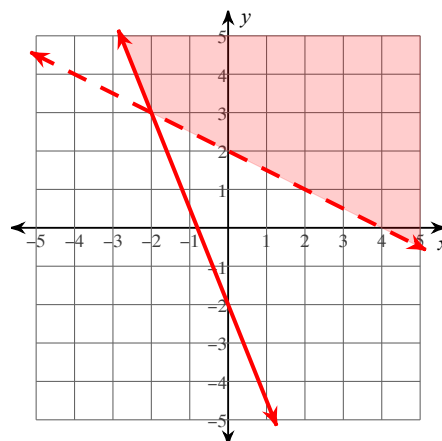
$$23) y \geq -2x - 1$$

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



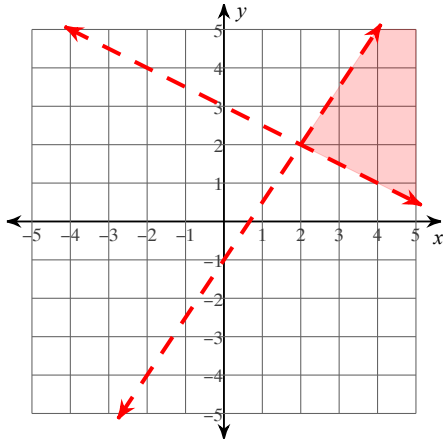
$$24) y \geq -\frac{5}{2}x - 2$$

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



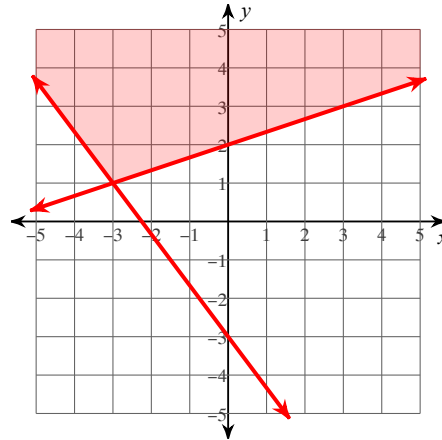
$$25) y > -\frac{1}{2}x + 3$$

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



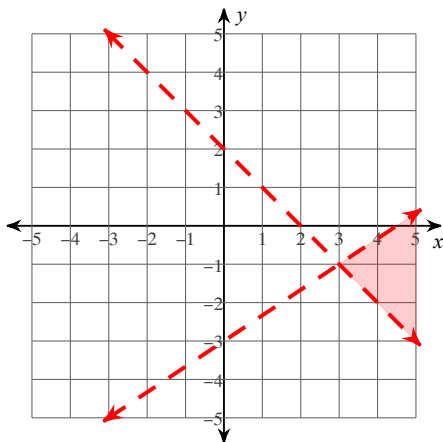
$$26) y \geq \frac{1}{3}x + 2$$

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



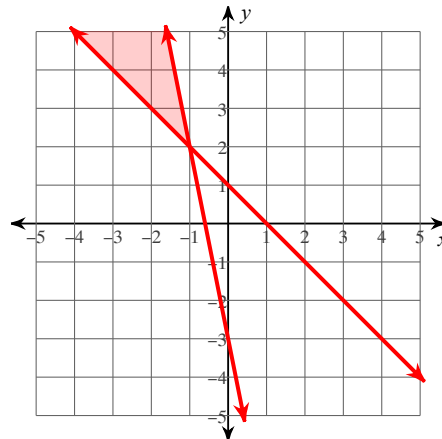
$$27) y < \frac{2}{3}x - 3$$

$$y > -x + 2$$



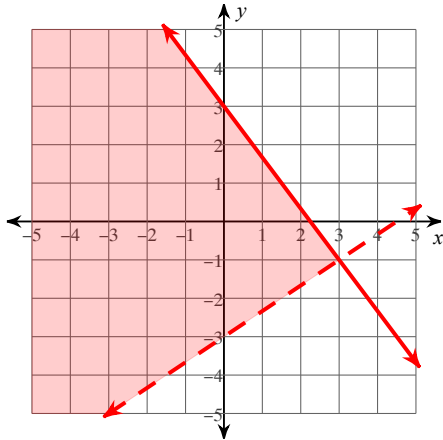
$$28) y \geq -x + 1$$

$$y \leq -5x - 3$$



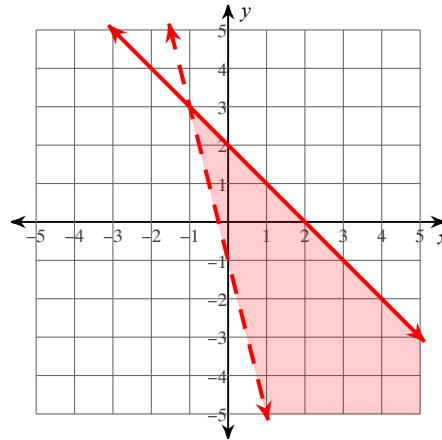
$$29) y > \frac{2}{3}x - 3$$

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



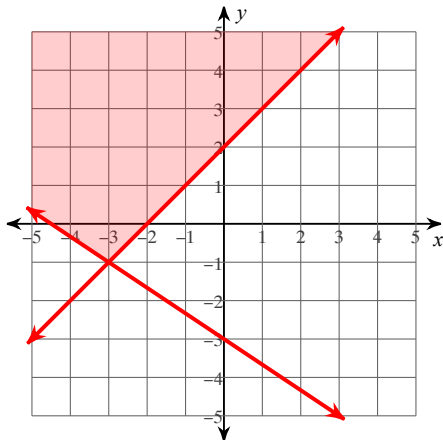
$$30) y > -4x - 1$$

$$y \leq -x + 2$$



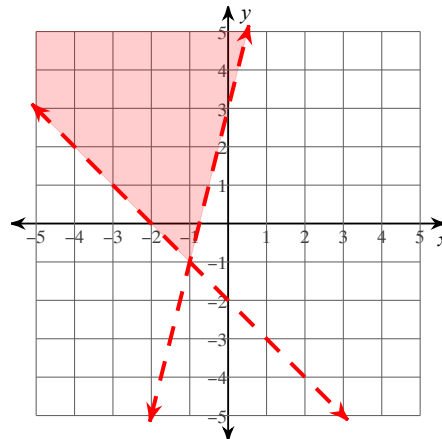
$$31) y \geq -\frac{2}{3}x - 3$$

$$y \geq x + 2$$



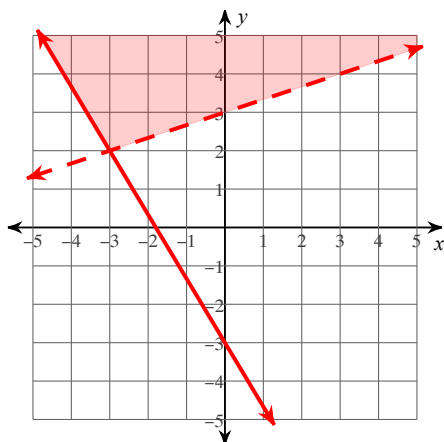
$$32) y > -x - 2$$

$$y > 4x + 3$$



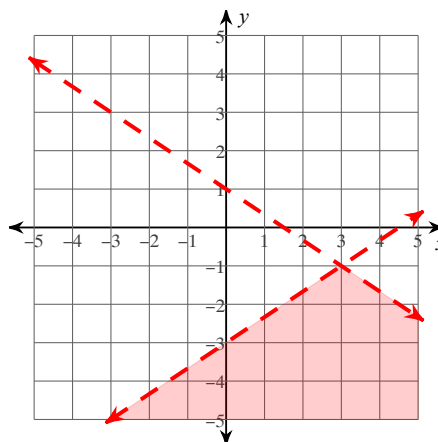
$$33) y \geq -\frac{5}{3}x - 3$$

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



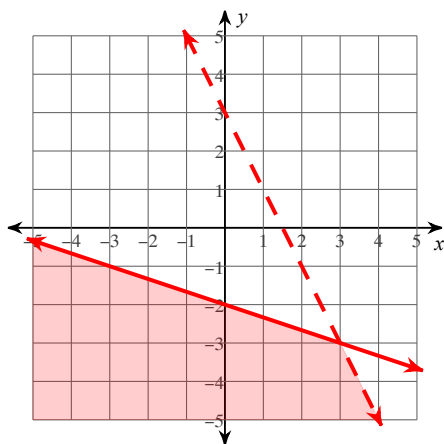
$$34) y < -\frac{2}{3}x + 1$$

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



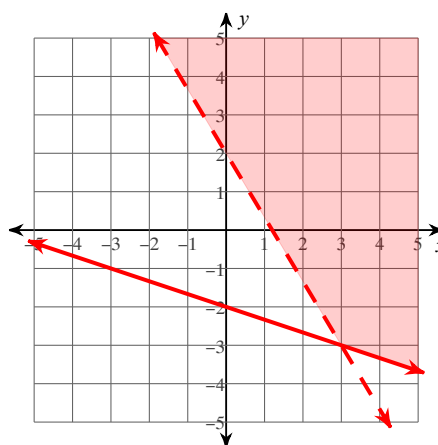
$$35) y \leq -\frac{1}{3}x - 2$$

$$y < -2x + 3$$

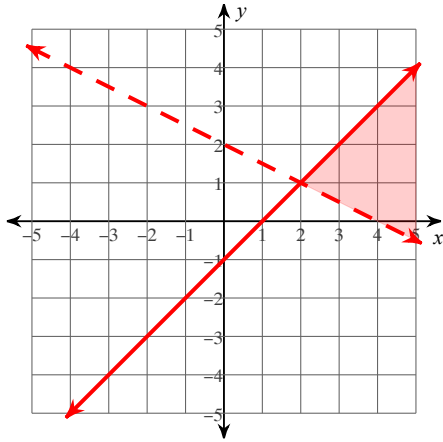


$$36) y > -\frac{5}{3}x + 2$$

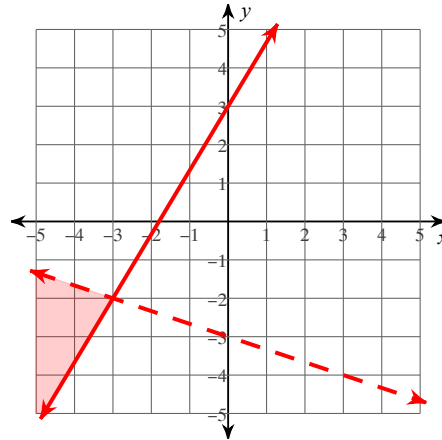
$$y \geq -\frac{1}{3}x - 2$$



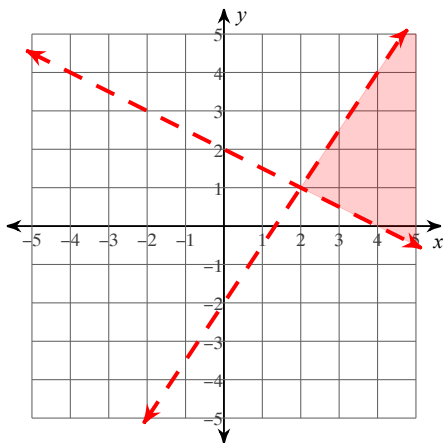
$$37) \begin{aligned} y &\leq x - 1 \\ y &> -\frac{1}{2}x + 2 \end{aligned}$$



$$38) \begin{aligned} y &\geq \frac{5}{3}x + 3 \\ y &< -\frac{1}{3}x - 3 \end{aligned}$$



$$39) \begin{aligned} y &> -\frac{1}{2}x + 2 \\ y &< \frac{3}{2}x - 2 \end{aligned}$$



$$40) \begin{aligned} y &> \frac{1}{3}x + 2 \\ y &\leq -\frac{2}{3}x - 1 \end{aligned}$$

