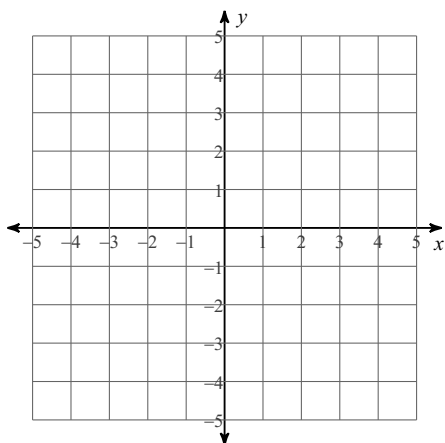


Unit 3.5 Example Systems of linear inequalities

Sketch the solution to each system of inequalities.

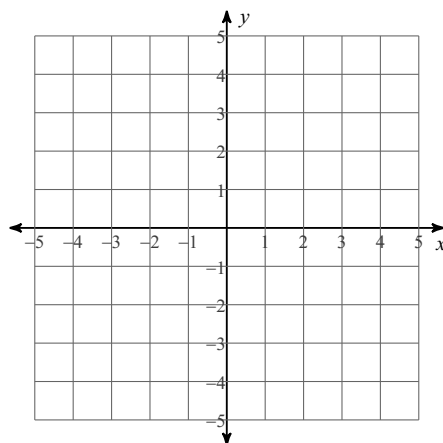
$$1) y \geq -\frac{1}{3}x - 2$$

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



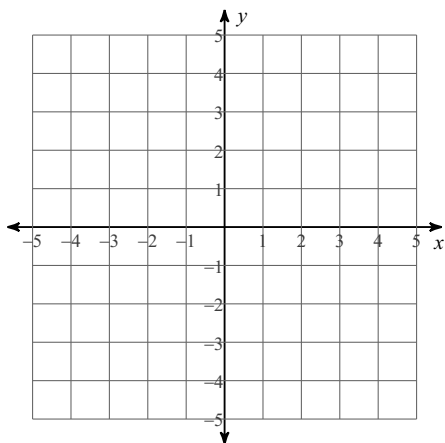
$$2) y > -\frac{5}{3}x + 2$$

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



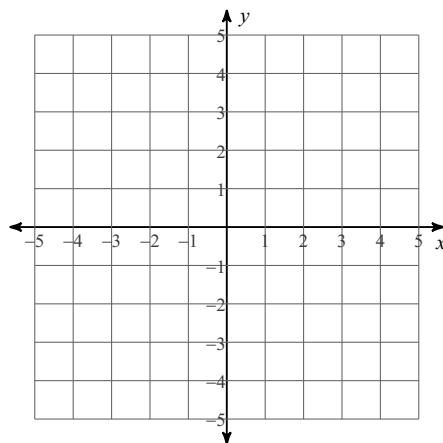
$$3) y > -2x - 1$$

$$y < x + 2$$



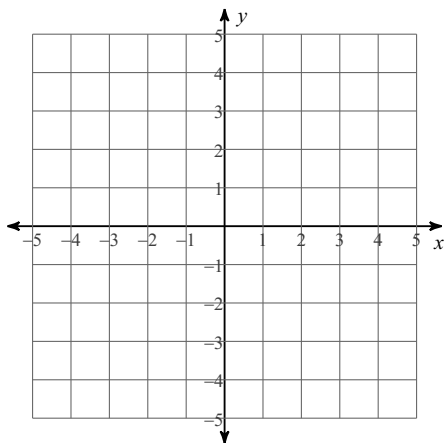
$$4) y \geq x + 1$$

$$y < 4x - 2$$



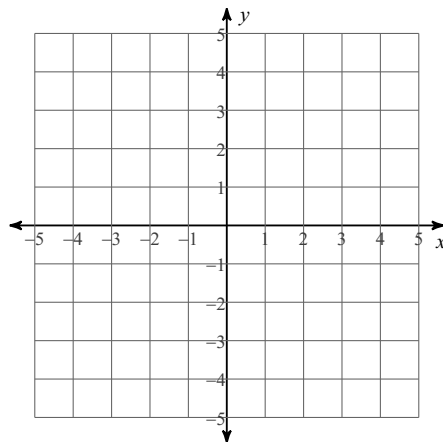
$$5) y \geq 2x + 1$$

$$y < 2x - 1$$

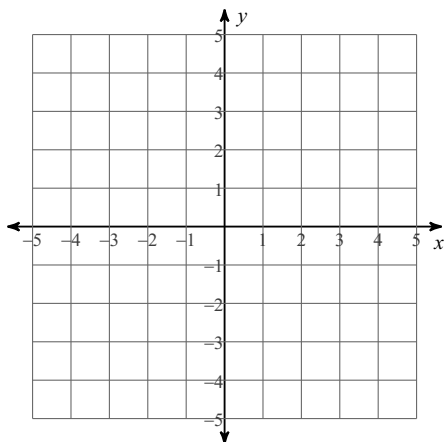


$$6) y < -\frac{3}{2}x - 2$$

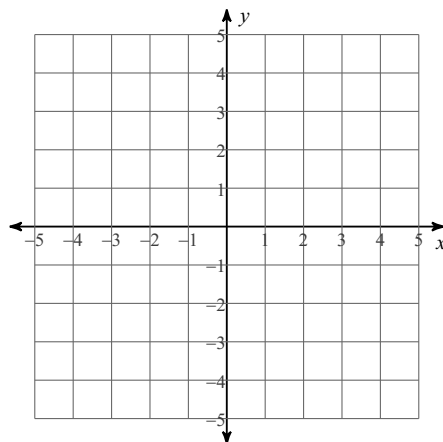
$$y < x + 3$$



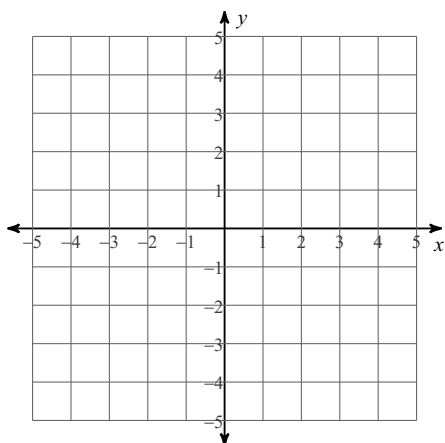
7) $x - y \leq 2$
 $2x + 3y < 9$



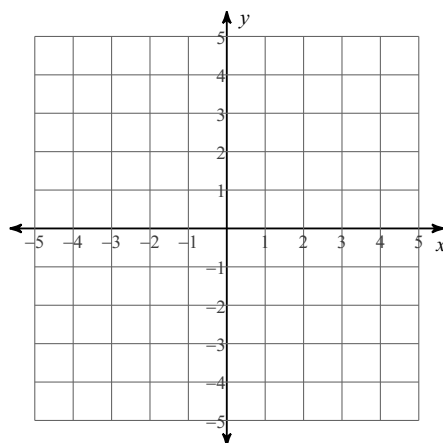
8) $x + y \geq 3$
 $2x - y \geq 3$



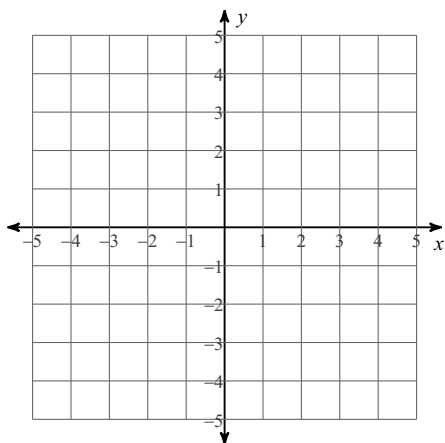
9) $4x + 3y \leq -3$
 $x + 3y > 6$



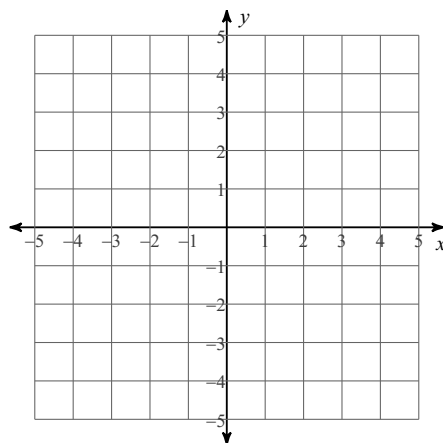
10) $2x - y < -3$
 $2x - 3y < 3$



11) $3x + y > 3$
 $3x + y < 2$



12) $x + 2y \geq -2$
 $5x + 2y \geq 6$

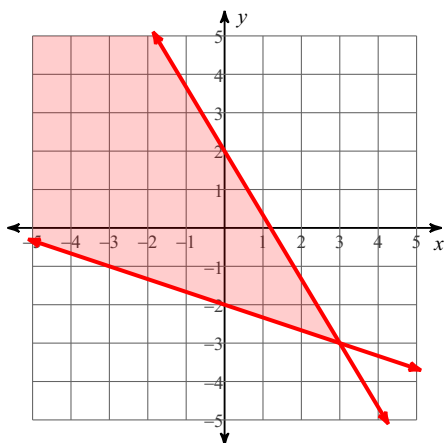


Unit 3.5 Example Systems of linear inequalities

Sketch the solution to each system of inequalities.

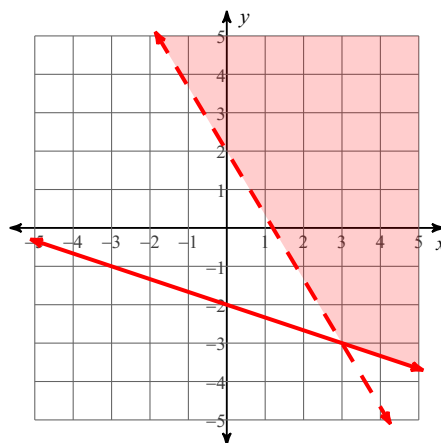
1) $y \geq -\frac{1}{3}x - 2$

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

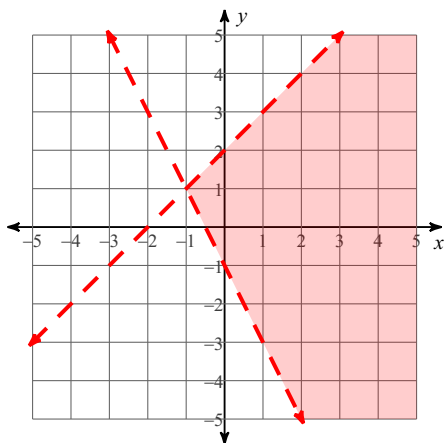


2) $y > -\frac{5}{3}x + 2$

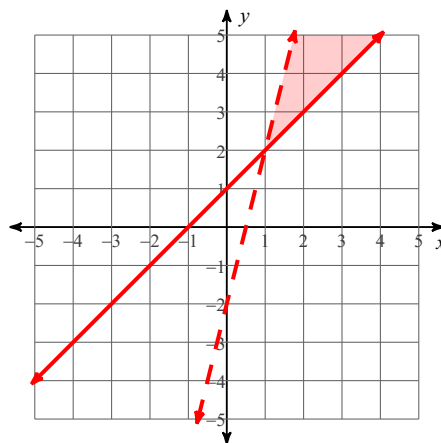
$y \geq -\frac{1}{3}x - 2$



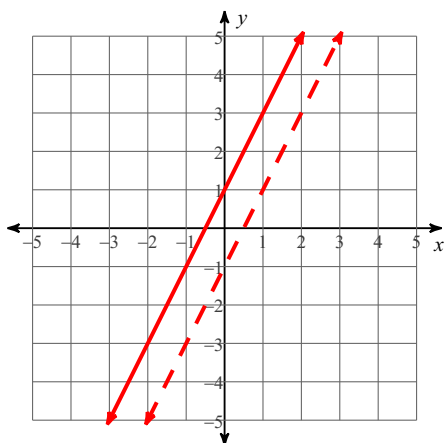
3) $y > -2x - 1$
 $y < x + 2$



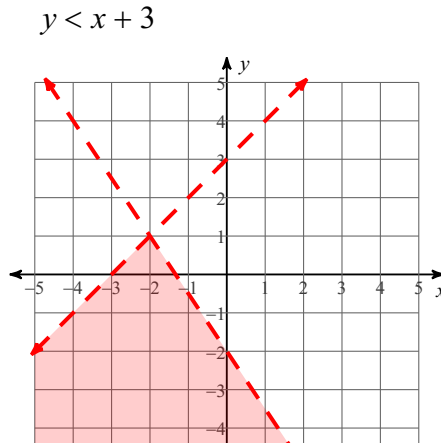
4) $y \geq x + 1$
 $y < 4x - 2$



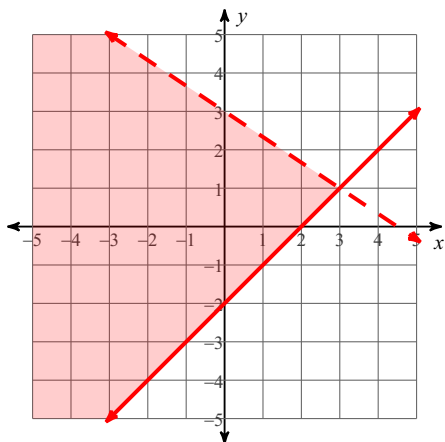
5) $y \geq 2x + 1$
 $y < 2x - 1$



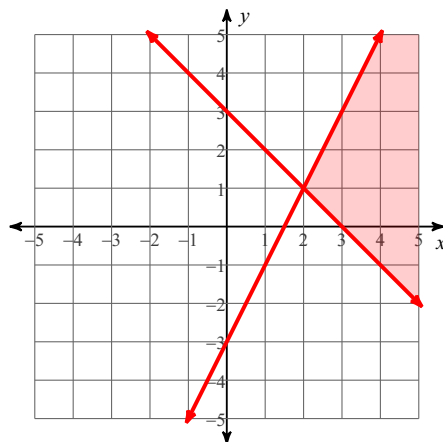
6) $y < -\frac{3}{2}x - 2$
 $y < x + 3$



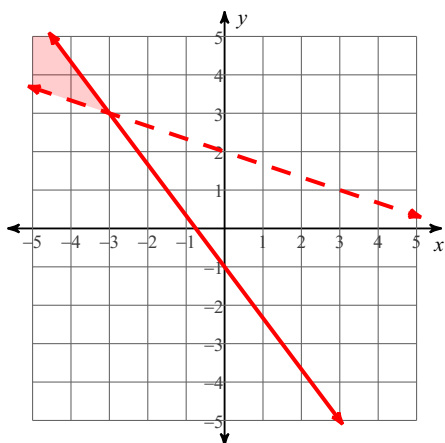
7) $x - y \leq 2$
 $2x + 3y < 9$



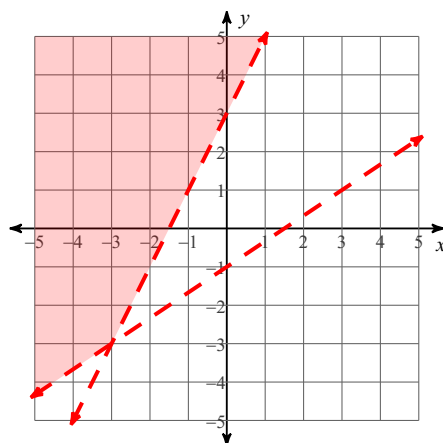
8) $x + y \geq 3$
 $2x - y \geq 3$



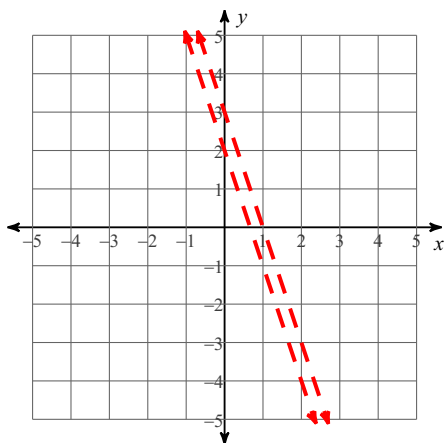
9) $4x + 3y \leq -3$
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10) $2x - y < -3$
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