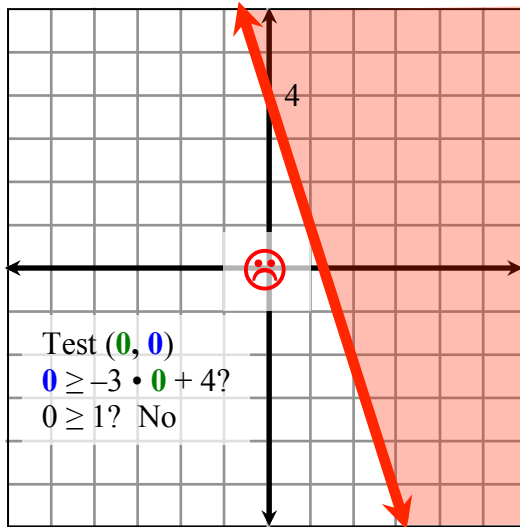


3.7 Linear Inequalities

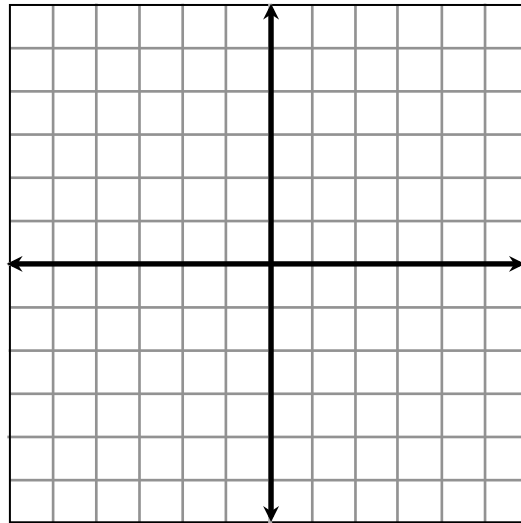
Solutions

Sketch the solution set to each linear inequality.

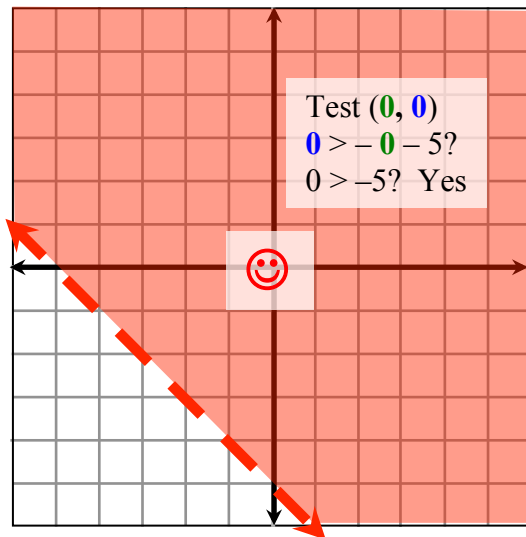
1. $y \geq -3x + 4$



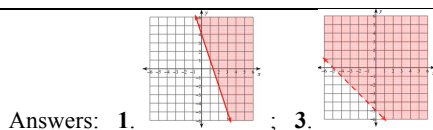
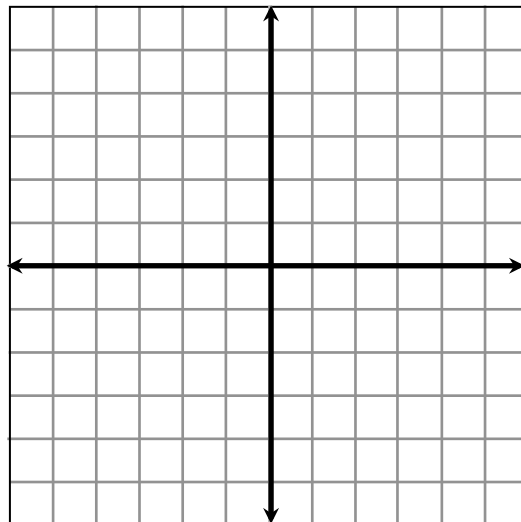
2. $y \leq \frac{3}{5}x - 5$



3. $y > -x - 5$



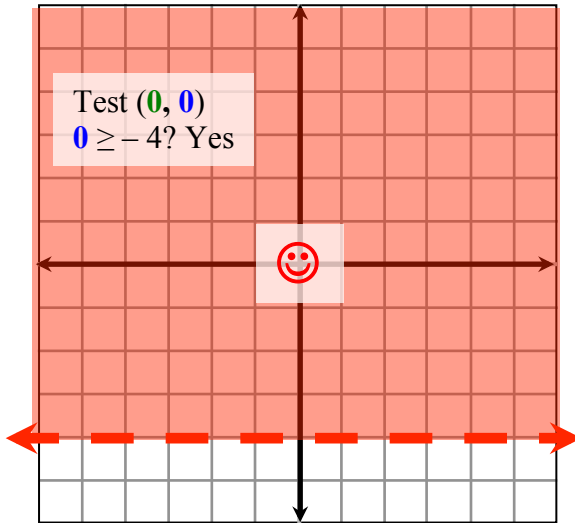
4. $y > 2x - 5$



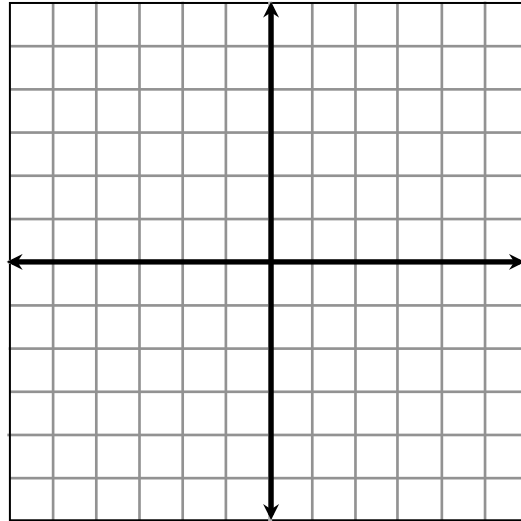
Answers: 1. ; 3.

Sketch the solution set to each linear inequality.

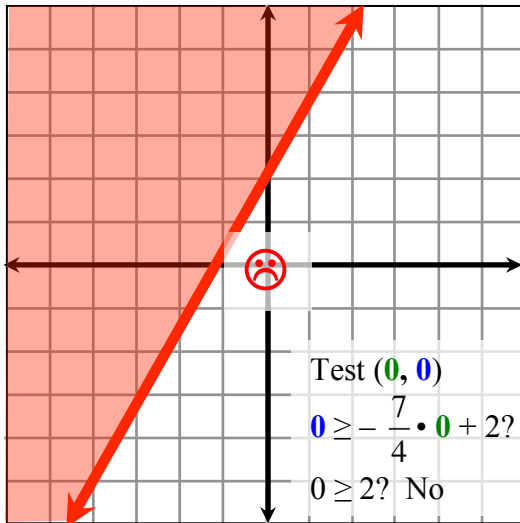
5. $y > -4$



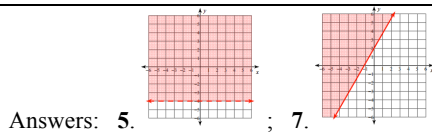
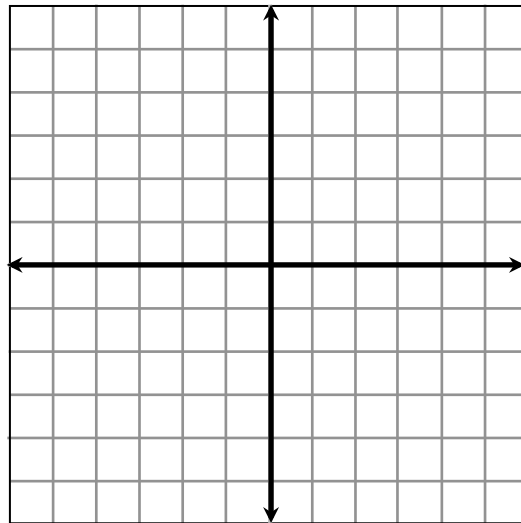
6. $x < -5$



7. $y \geq \frac{7}{4}x + 2$



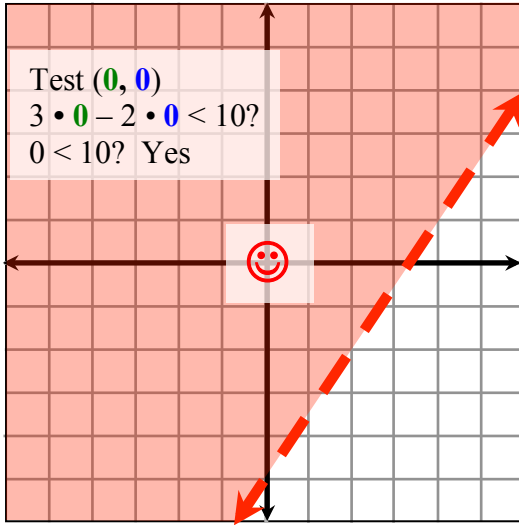
8. $y \leq \frac{4}{3}x - 4$



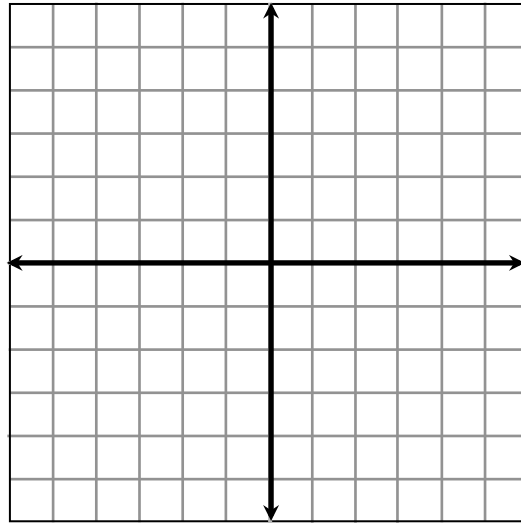
Sketch the solution set to each linear inequality.

9. $3x - 2y < 10$

$$\begin{aligned} -3x & \quad -3x \\ -2y & < -3x + 10 \\ y & > \frac{3}{2}x - 5 \end{aligned}$$

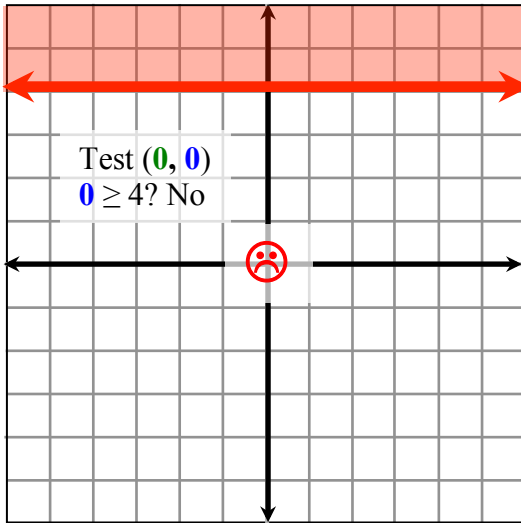


10. $5x - 3y \leq -15$

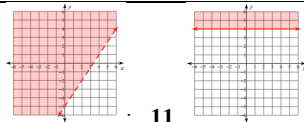
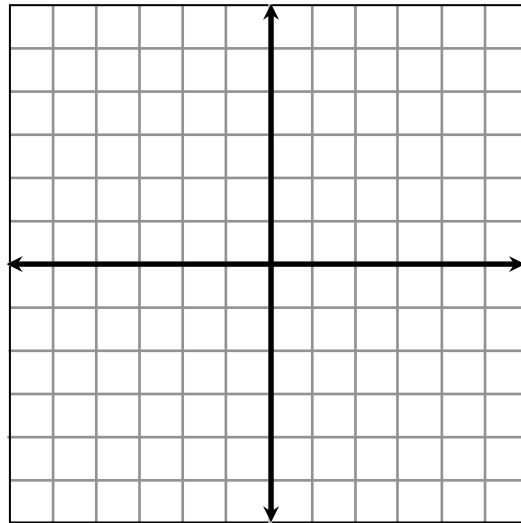


11. $y - 4 \geq 0$

$$\begin{aligned} +4 & \quad +4 \\ y & \geq 4 \end{aligned}$$



12. $x - y > 2$



Answers: 9.

11.