

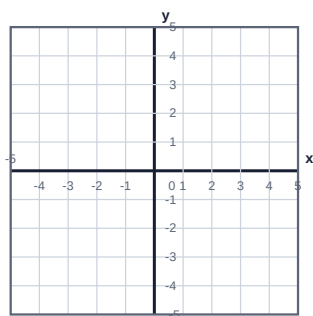
Math Sheet

Name _____ Score _____ / 8 Teacher _____ Date _____

Graphing Systems of Inequalities

Graph both inequalities and shade their common solution region. Label the boundary intersection.

1.

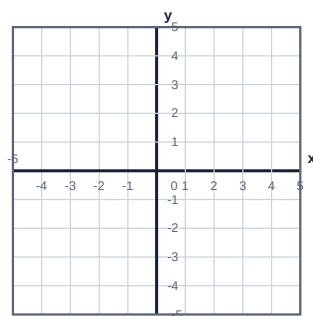


1 $3x + 2y \geq -14$

2 $x \geq -2$

Boundary intersection: _____

5.

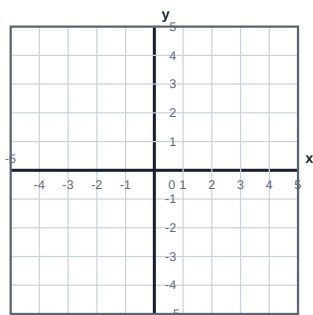


1 $x - 2y < -1$

2 $5x - y \leq -5$

Boundary intersection: _____

2.

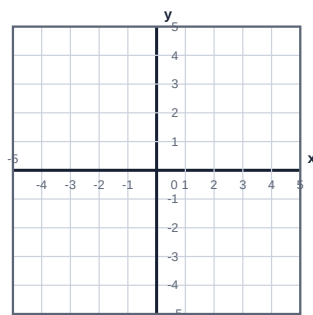


1 $y > -x + 2$

2 $y > 2$

Boundary intersection: _____

6.

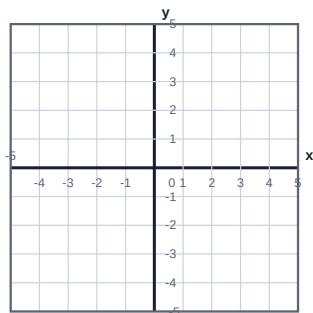


1 $y < -\frac{1}{4}x + \frac{21}{4}$

2 $x < 1$

Boundary intersection: _____

3.

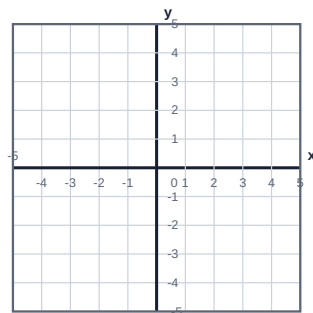


1 $y > -\frac{3}{5}x + \frac{17}{5}$

2 $y \leq -\frac{4}{3}x + \frac{19}{3}$

Boundary intersection: _____

7.

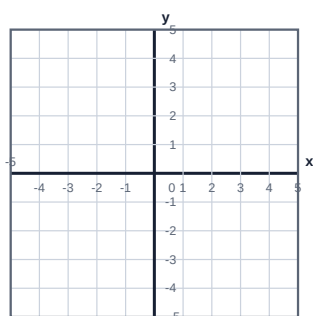


1 $y \geq 8x - 5$

2 $y > -\frac{7}{2}x - 5$

Boundary intersection: _____

4.

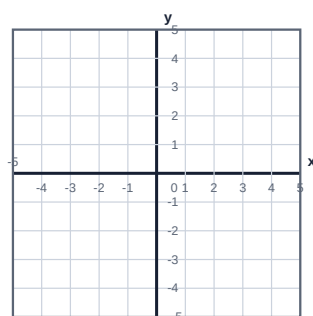


1 $7x - 4y \leq -20$

2 $2x - y \leq -5$

Boundary intersection: _____

8.



1 $x + 4y < 8$

2 $x \geq -4$

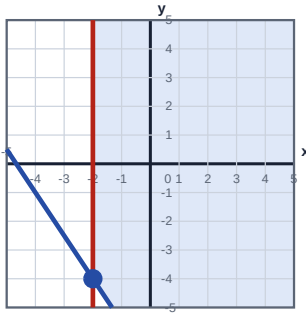
Boundary intersection: _____

Graphing Systems of Inequalities

Answer key

Graph both inequalities and shade their common solution region. Label the boundary intersection.

1.

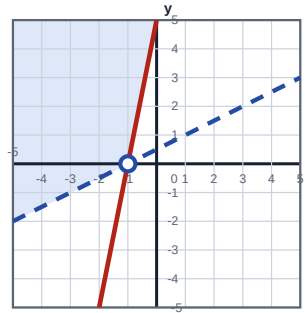


$$1 \quad 3x + 2y \geq -14$$

$$2 \quad x \geq -2$$

Boundary intersection:
(-2, -4)

5.



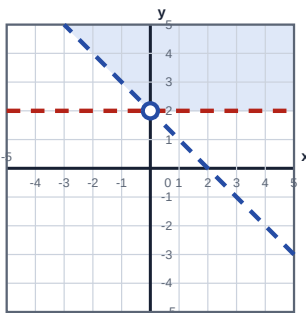
$$1 \quad x - 2y < -1$$

$$2 \quad 5x - y \leq -5$$

Boundary intersection:
(-1, 0)

Excluded by a strict boundary.

2.



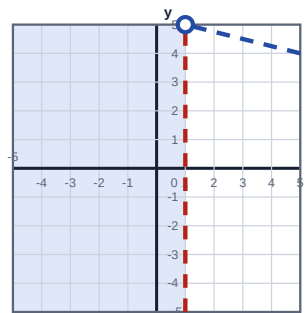
$$1 \quad y > -x + 2$$

$$2 \quad y > 2$$

Boundary intersection:
(0, 2)

Excluded by a strict boundary.

6.



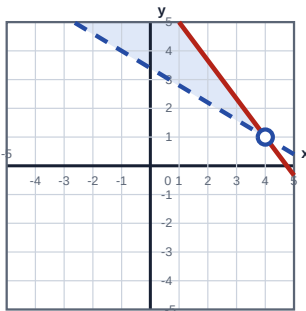
$$1 \quad y < -\frac{1}{4}x + \frac{21}{4}$$

$$2 \quad x < 1$$

Boundary intersection:
(1, 5)

Excluded by a strict boundary.

3.



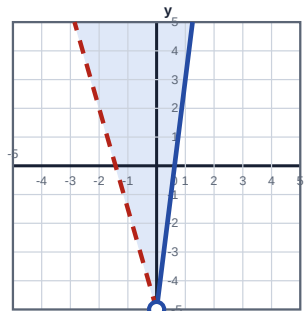
$$1 \quad y > -\frac{3}{5}x + \frac{17}{5}$$

$$2 \quad y \leq -\frac{4}{3}x + \frac{19}{3}$$

Boundary intersection:
(4, 1)

Excluded by a strict boundary.

7.



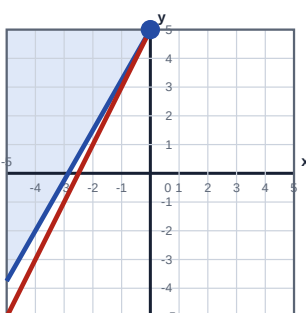
$$1 \quad y \geq 8x - 5$$

$$2 \quad y > -\frac{7}{2}x - 5$$

Boundary intersection:
(0, -5)

Excluded by a strict boundary.

4.

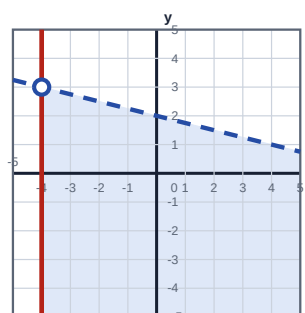


$$1 \quad 7x - 4y \leq -20$$

$$2 \quad 2x - y \leq -5$$

Boundary intersection:
(0, 5)

8.



$$1 \quad x + 4y < 8$$

$$2 \quad x \geq -4$$

Boundary intersection:
(-4, 3)

Excluded by a strict boundary.