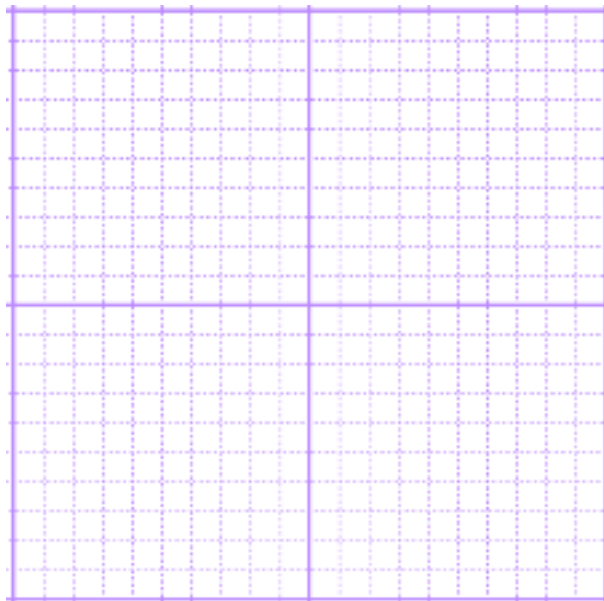


Graph each equation to find the point of intersection. P Name \_\_\_\_\_  
Remember to find a **nice starting point**, then use **the slope** to find other nice points.

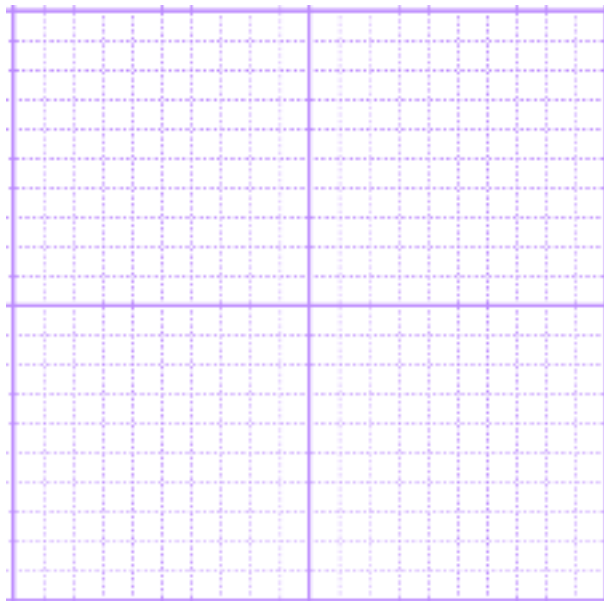
Problem 1



$$y = \frac{1}{2}x + 1$$
$$3x - y = 9$$

Pt of Intersection \_\_\_\_\_

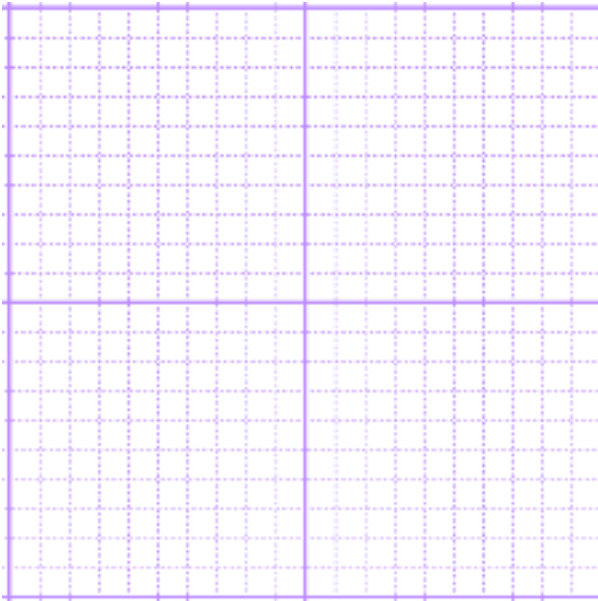
Problem 2



$$2x + 3y = 10$$
$$y = \frac{3}{2}x - 1$$

Pt of Intersection \_\_\_\_\_

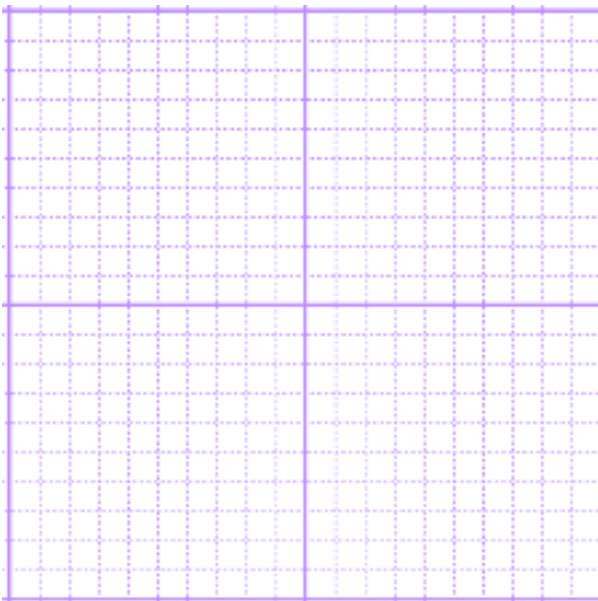
Problem 3



$$3x + 4y = 6$$
$$y = \frac{5}{2}x + 8$$

Pt of Intersection \_\_\_\_\_

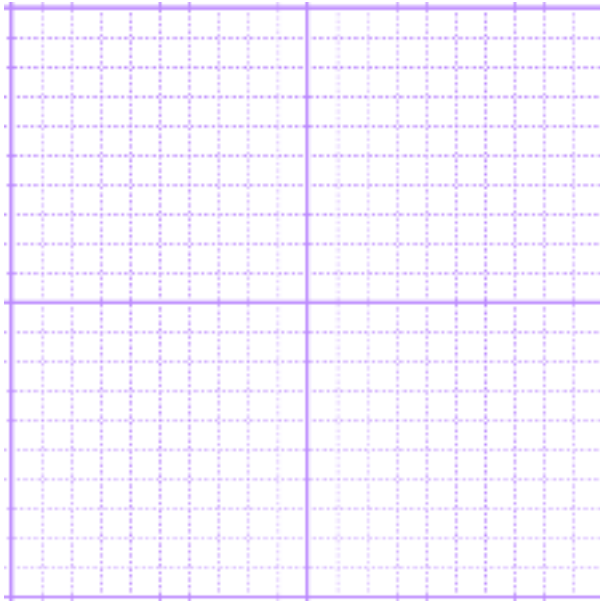
Problem 4



$$y = \frac{1}{2}x - 5$$
$$3x - 2y = 18$$

Pt of Intersection \_\_\_\_\_

Problem 5



$$y = \frac{-2}{3}x - 6$$
$$x + 2y = -10$$

Pt of Intersection \_\_\_\_\_

Solve each system of equations using **substitution**.

Problem 6

$$2x - 3y = -4$$

$$x + 3y = 7$$

Pt of Intersection \_\_\_\_\_

Problem 7

$$x - 3y = 5$$

$$3x + 2y = 4$$

Pt of Intersection \_\_\_\_\_

Problem 8

$$5x + y = 4$$

$$x - 2y = 3$$

Pt of Intersection \_\_\_\_\_

Problem 9

$$x - 5y = -2$$

$$2x + 5y = -4$$

Pt of Intersection \_\_\_\_\_

Solve each system of equations using **substitution**.

Problem 10

$$-2x + y = 1$$

$$4x + 3y = 23$$

Pt of Intersection \_\_\_\_\_

Solve each system of equations using **Linear Combination / Elimination**.

Problem 11

$$5x - y = -6$$

$$x - y = -2$$

Pt of Intersection \_\_\_\_\_

Problem 12

$$x + 4y = 30$$

$$2x - y = -6$$

Pt of Intersection \_\_\_\_\_

Problem 13

$$x - y = 3$$

$$5x + y = -15$$

Pt of Intersection \_\_\_\_\_

Problem 14

$$x = 3y + 5$$

$$2y + 3x = 4$$

Pt of Intersection \_\_\_\_\_

Problem 15

$$y = 3x - 1$$

$$x + y = 3$$

Pt of Intersection \_\_\_\_\_

Solve each system of equations using **Cramer's Rule**.

Problem 16

$$y = -x + 2$$

$$2x - y = 1$$

Pt of Intersection \_\_\_\_\_

Problem 17

$$x - y = 2$$

$$3y + 2x = 9$$

Pt of Intersection \_\_\_\_\_

Problem 18

$$y = x - 4$$

$$2x - 5y = 2$$

Pt of Intersection \_\_\_\_\_

Problem 19

$$2x + 3y = 8$$

$$3x + y = 5$$

Pt of Intersection \_\_\_\_\_

Problem 20

$$2x + 3y = 6$$

$$x + 2y = 1$$

Pt of Intersection \_\_\_\_\_

Solve each system with the **method of your choosing**.

Problem 21

$$y = 3x + 5$$

$$x + 2y = 1$$

Pt of Intersection \_\_\_\_\_

Problem 22

$$2x - 3y = 9$$

$$5x + 2y = -4$$

Pt of Intersection \_\_\_\_\_

Problem 23

$$4x - 5y = 10$$

$$3x + y = 9$$

Pt of Intersection \_\_\_\_\_

Problem 24

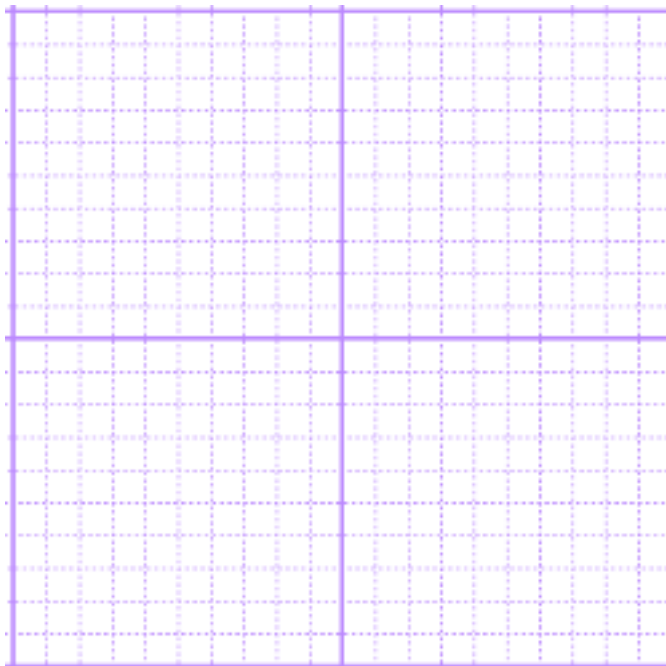
$$6x + 3y = 5$$

$$x + 4y = 9$$

Pt of Intersection \_\_\_\_\_

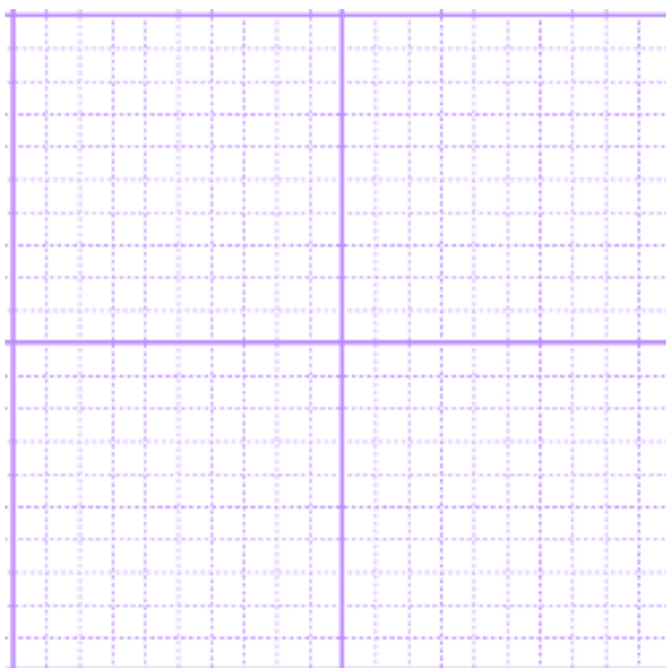
Graph The System of Inequalities

#25.  $y \geq \frac{-2}{3}x + 3$   
 $x - 2y > 1$



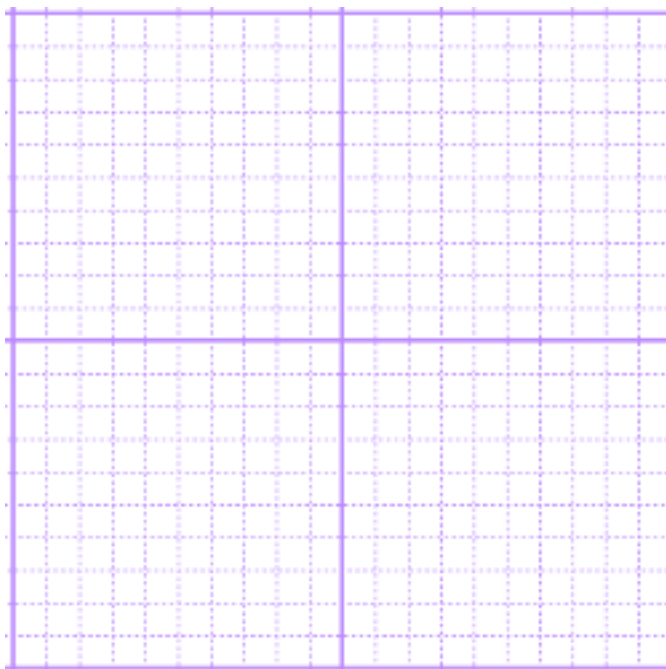
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#26.  $y \geq \frac{1}{4}x - 1$   
 $2x - y < 11$



Graph The System of Inequalities

#27.  $3x + 2y \geq 8$   
 $2x - y \leq 3$



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#28.  $y \leq \frac{2}{5}x - 6$   
 $3x + 2y < 7$

