

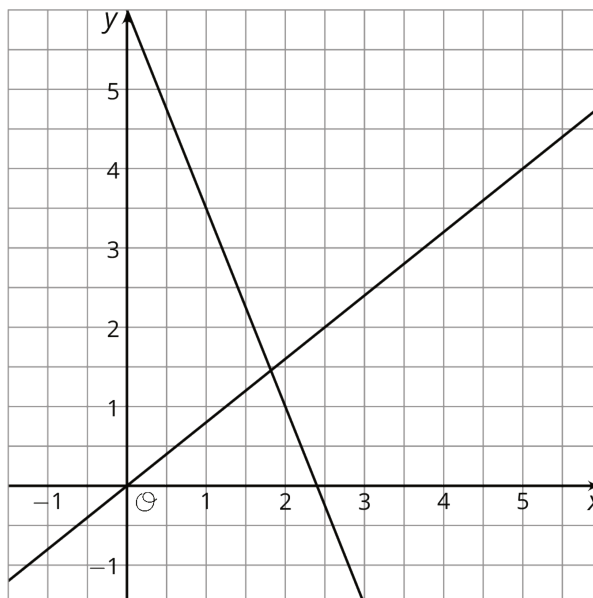


3. Clare and Noah play a game in which they earn the same number of points for each goal and lose the same number of points for each penalty. Clare makes 6 goals and 3 penalties, ending the game with 6 points. Noah earns 8 goals and 9 penalties and ends the game with -22 points.
- Write a system of equations that describes Clare and Noah's outcomes. Use  $x$  to represent the number of points for a goal and  $y$  to represent the number of points for a penalty.
  - Solve the system. What does your solution mean?

4. Solve: 
$$\begin{cases} y = 6x - 8 \\ y = -3x + 10 \end{cases}$$

(From Unit 4, Lesson 14.)

5. a. Estimate the coordinates of the point where the two lines meet.



- b. Choose two equations that make up the system represented by the graph.

- i.  $y = \frac{5}{4}x$
- ii.  $y = 6 - 2.5x$
- iii.  $y = 2.5x + 6$
- iv.  $y = 6 - 3x$
- v.  $y = 0.8x$

- c. Solve the system of equations and confirm the accuracy of your estimate.

(From Unit 4, Lesson 13.)