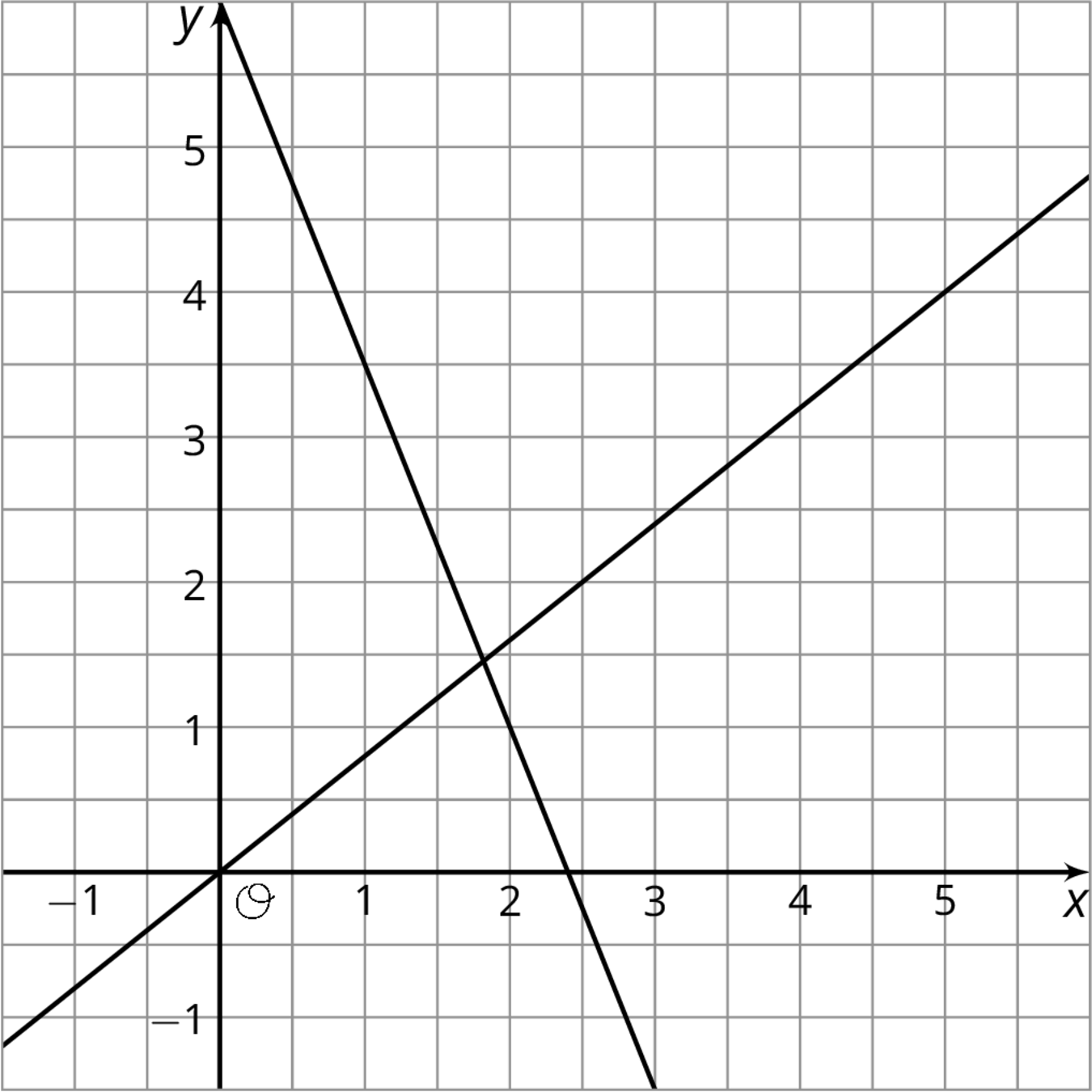
## Unit 4 Lesson 15 Cumulative Practice Problems

1. Kiran and his cousin work during the summer for a landscaping company. Kiran's cousin has been working for the company longer, so his pay is 30% more than Kiran's. Last week his cousin worked 27 hours, and Kiran worked 23 hours. Together, they earned $493.85. What is Kiran's hourly pay? Explain or show your reasoning.
2. Decide which story can be represented by the system of equations and . Explain your reasoning.
   1. Diego’s teacher writes a test worth 100 points. There are 6 more multiple choice questions than short answer questions.
   2. Lin and her younger cousin measure their heights. They notice that Lin is 6 inches taller, and their heights add up to exactly 100 inches.
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 points.
   1. Write a system of equations that describes Clare and Noah's outcomes. Use to represent the number of points for a goal and to represent the number of points for a penalty.
   2. Solve the system. What does your solution mean?
4. Solve:

* (From Unit 4, Lesson 14.)
  1. Estimate the coordinates of the point where the two lines meet.
  + 
  1. Choose two equations that make up the system represented by the graph.
  2. Solve the system of equations and confirm the accuracy of your estimate.
* (From Unit 4, Lesson 13.)



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