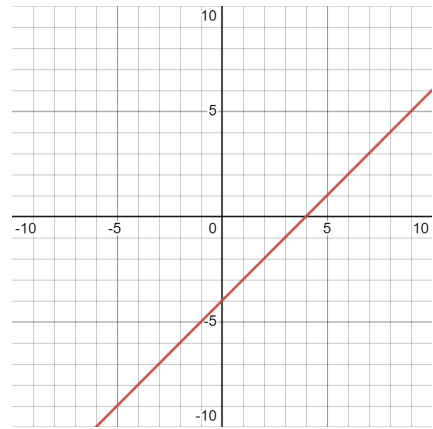


## Lesson 2-8: Understand the y-intercept of a Line

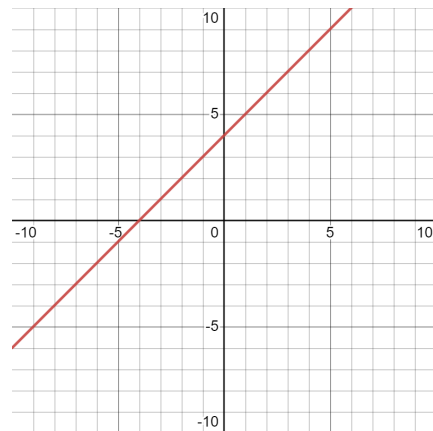
1. Sample answer: The y-intercept is the value of the y-coordinate where the line crosses the y-axis.
2. Sample answer: Both of the graphs have a y-intercept of 0, and both represent proportional relationships. The graph of every proportional relationship crosses the y-axis at  $(0,0)$ .
3. Sample answer: When the y-intercept is positive, the line crosses the y-axis above the x-axis. When the y-intercept is negative, the line crosses the y-axis below the x-axis.
4. 0
5. 1.8; Sample answer: The movie had 1.8 hours remaining when Kelly hit "play".
6. y  
 $(0,7)$   
7
7. -4
8. 0
9. 80 meters
10. 0; the canister was empty when Joshua began to fill it.
11. a. 4  
b. The temperature at sunrise.

12. a. Sample answer: The friend drew a graph that crossed the x-axis at 3 instead of the y-axis.  
b. Line should go through the point  $(0,3)$ .

13. a.



b.



14. B, C