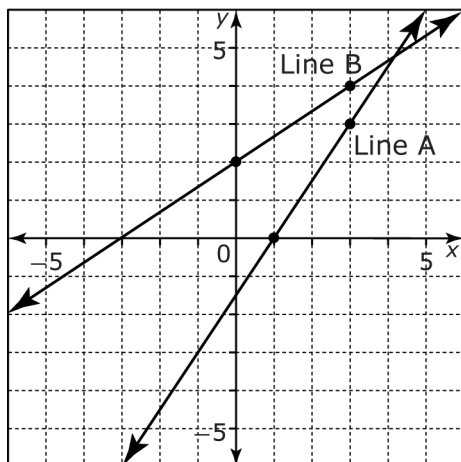
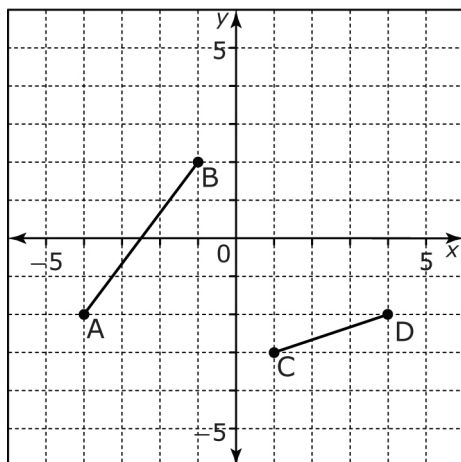


## Section 6.1 Extra Practice

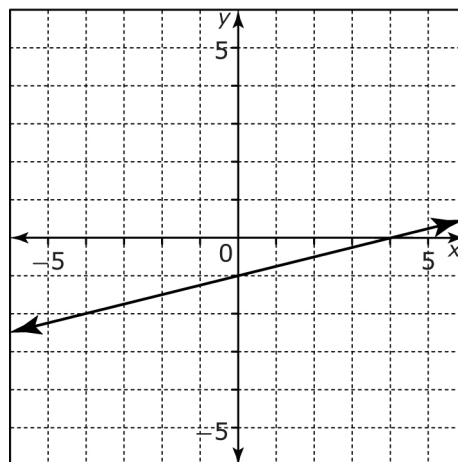
1. What are the rise and run of each line?



2. Determine the slope of each line segment.



3. Determine the slope of the line shown.



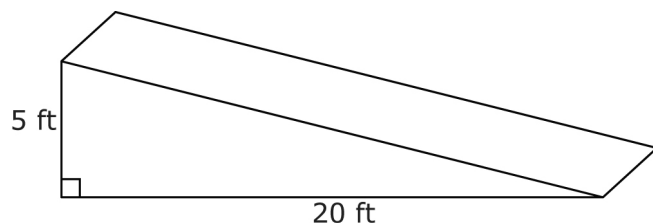
4. Suppose the slope of a line is 4:3 and the run is 12 cm. What is the rise of the line?
5. A ramp is 5 feet along the ground and reaches a front step that is 2 feet above the ground. What is the slope of the ramp?
6. Solve each proportion.
- $\frac{1}{8} = \frac{x}{24}$
  - $\frac{x}{18} = \frac{2}{3}$
  - $\frac{1}{7} = \frac{10}{x}$
  - $\frac{18}{6} = \frac{3x}{5}$



7. Complete the table. **Hint:** The rise and run must be in the same unit of measure before you calculate the slope.

Rise	Run	Slope
a) 2 in.	1 ft	
b) 6 in.	$3\frac{1}{2}$ ft	
c) 10 cm	3 m	
d) 200 cm	1 m	

8. What is the slope of the ramp?



9. A ramp rises 1 metre for every 2 metres horizontally.
- What is the slope of the ramp?
  - If the top of the ramp is 90 cm high, what is the distance along the ground?
10. A driveway rises 25 in. for every 250 in. of horizontal distance. Determine the slope of the driveway. Express the slope
- as a fraction
  - as a decimal
  - as a percent
11. Two ski slopes are measured for steepness. The Eastern Trail has a vertical distance of 60 m and a horizontal distance of 160 m. The Western Trail has a vertical distance of 110 m and a horizontal distance of 330 m. Which ski slope is steeper?
12. A staircase has steps with a riser height of 8 inches and a tread length of 10 inches.
- What is the slope of each step?
  - What is the slope of the staircase?

