

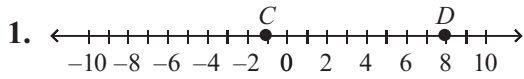
# Additional Practice

## 10.3

NAME \_\_\_\_\_

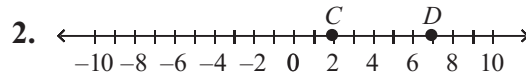
Module 10 Coordinate Geometry and Spatial Visualization  
Lesson 3 Coordinate Geometry

Find the distance from point  $C$  to point  $D$ . Then, find the coordinate of the midpoint of  $\overline{CD}$ .



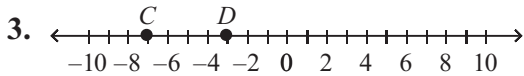
Distance: 9 units

Midpoint:  $3\frac{1}{2}$



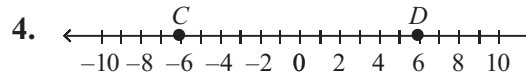
Distance: 5 units

Midpoint:  $4\frac{1}{2}$



Distance: 4 units

Midpoint: -5



Distance: 12 units

Midpoint: 0

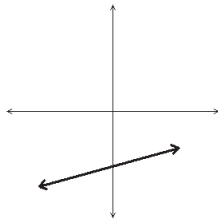
5. Find the distance from  $(-7, -4)$  to  $(8, 2)$ .

$\sqrt{261}$  units

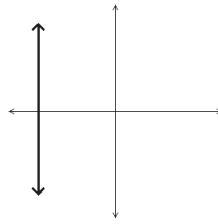
6. Find the distance from  $(-1, 8)$  to  $(1, -2)$ .

$\sqrt{104}$  units

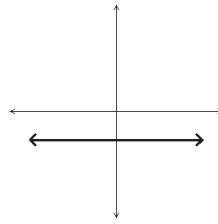
7. For each figure, tell if the slope of the line is *positive*, *negative*, *zero*, or *undefined*.



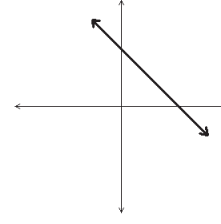
**Positive**



**Undefined**



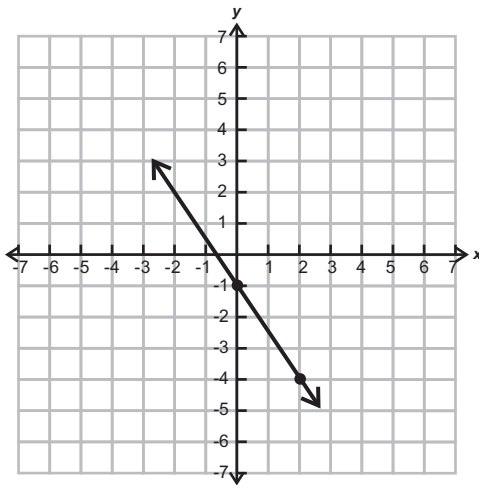
**Zero**



**Negative**

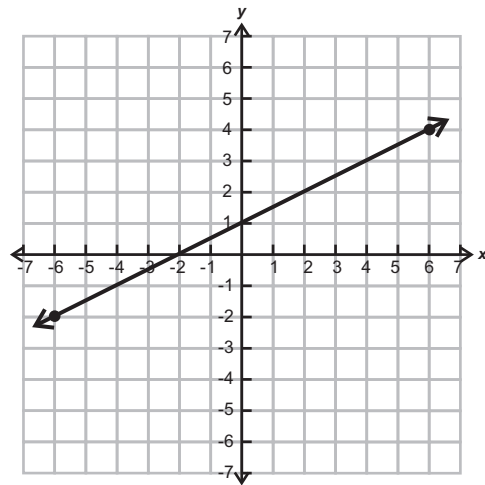
**Find the slope.**

8.



**Slope =  $-\frac{3}{2}$**

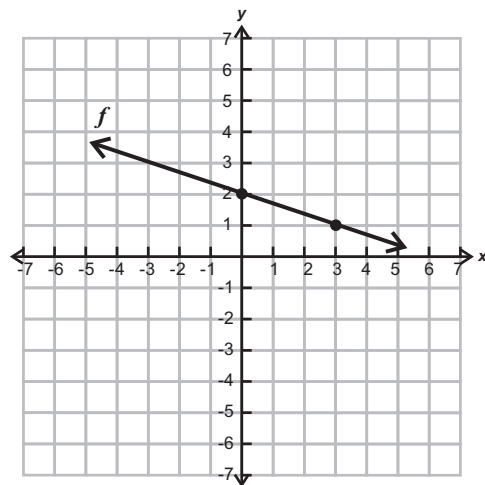
9.



**Slope =  $\frac{1}{2}$**

10. Find the slope of any line parallel to line  $f$ , and the slope of any line perpendicular to line  $f$ .

**Parallel:  $-\frac{1}{3}$**   
**Perpendicular: 3**



NAME \_\_\_\_\_

**Module 10**    **Coordinate Geometry and Spatial Visualization**  
**Lesson 3**     **Coordinate Geometry**

11. Find the slope of any line parallel to line  $g$ , and the slope of any line perpendicular to line  $g$ .

**Parallel: 1**  
**Perpendicular: -1**

