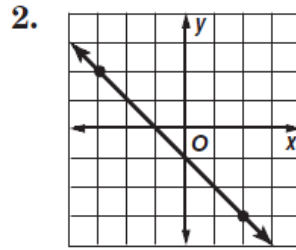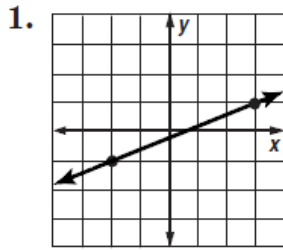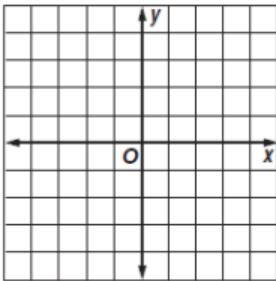**Find the slope of each line.**

1.

2.

3.
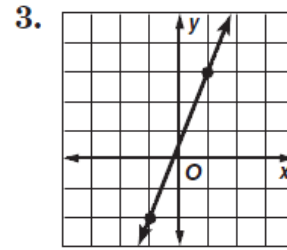
The points given in each table lie on a line. Find the slope of the line. Then graph the line.

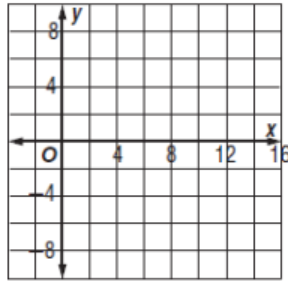4.
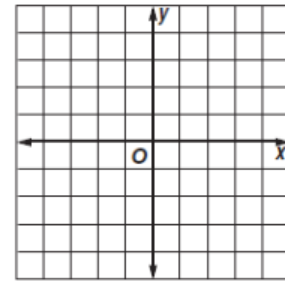
x	−1	1	3	5
y	−2	0	2	4

5.

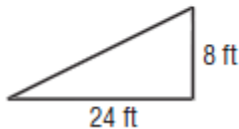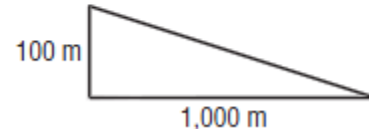| x	−2	3	8	13
y	−2	−1	0	1

6.

x	−1	2	5	8
y	3	−1	−5	−9

7. **HOMES** Find the slope of the roof of a home that rises 8 feet for every horizontal change of 24 feet.

8. **MOUNTAINS** Find the slope of a mountain that descends 100 meters for every horizontal distance of 1,000 meters.

Find the slope of the line that passes through each pair of points.

9. A(1, 3), B(4, 7)

10. C(3, 5), D(2, 6)

11. E(4, 5), F(5, 5)

12. P(–2, –5), R(2, 3)

13. S(–7, 4), T(5, –2)

14. V(2, –1), W(–4, –6)

15. A line passes through the points A(–1, –5), B(0, –1), C(1, 3), and D(2, 7).
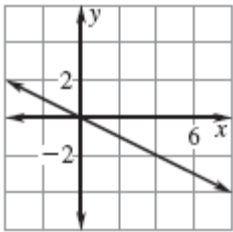
a) Does it matter which two points you use to find the slope using the slope formula? Explain.

_____

b) Calculate the slope of the line.

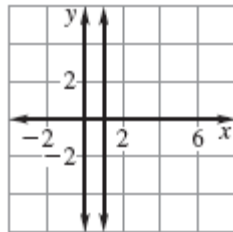**16.** Explain the difference between $\frac{0}{3}$ and $\frac{3}{0}$

_____

17. Tell whether the slope of the line is *positive, negative, zero, or undefined.* Then find the slope.
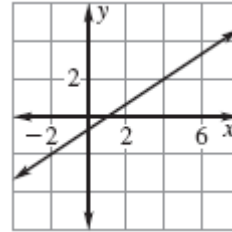
a.	b.	c.	d.	e.

_____   _____   _____   _____   _____
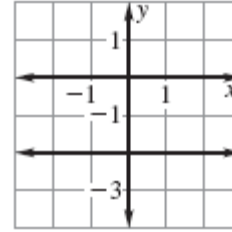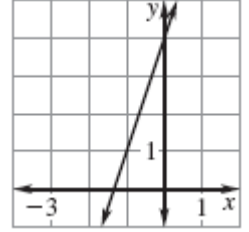
m = _____   m = _____   m = _____   m = _____   m = _____
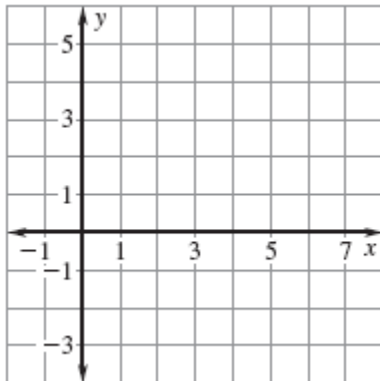
Plot the points and draw a line through them. Without calculating, tell whether the slope of the line is *positive, negative, zero*, or *undefined*. Then calculate the slope and check the sign.

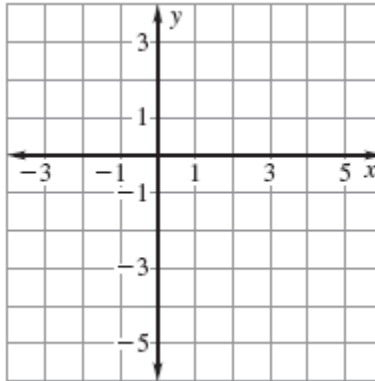18. (1, 0) and (5, 3)   19. (– 3, – 2) and (5, – 2)   20. (– 4, 2) and (3, – 5)

Pos. or neg?_____   _____   _____
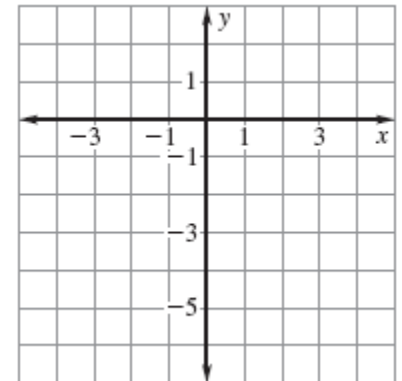
m =   m =   m =

21. Slope is _____ for ANY two points on the line

22. A line that slopes downward from left to right has a _____ slope.

23. A horizontal line has a _____ slope, the slope of the vertical line is _____ .