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

13. (3, -8) (-5, 2)

14. (-10, -3) (7, 2)

15. (-7, -6) (3, -6)

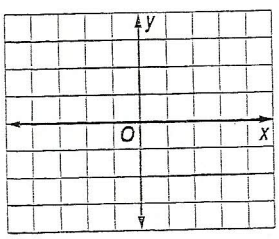
16. (8, 2) (8, -1)

17. (4, 3) (7, -2)

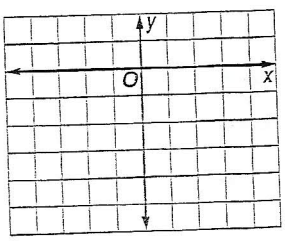
18. (-6, -3) (-8, 4)

Graph the line passing through the given point with the given slope.

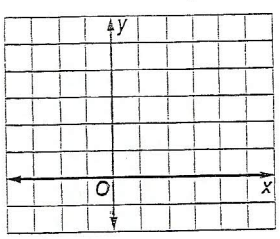
19. $(0, 2), m = 0$



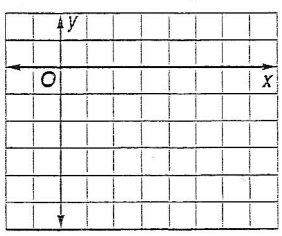
20. $(0, -3), m = 3$



21. $(2, 1), m = -\frac{3}{4}$

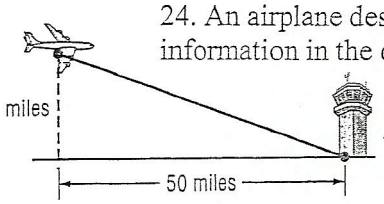


22. $(2, -3), m = \frac{4}{5}$



23. Brooke left from an elevation of 7400 feet at 7:00AM and hiked to an elevation of 9800 feet by 11:00 AM. What was her rate of change in altitude?

24. An airplane descends along a straight-line path with a slope of -.1 to land at an airport. Use the information in the diagram to determine the initial height of the airplane.



25. An architect is designing a window with slanted interior bars. The crossbeam is perpendicular to the other four bars. What is the slope of the crossbeam?