Name: _____

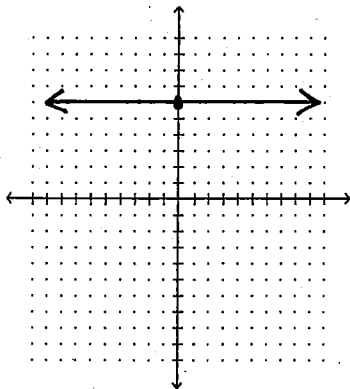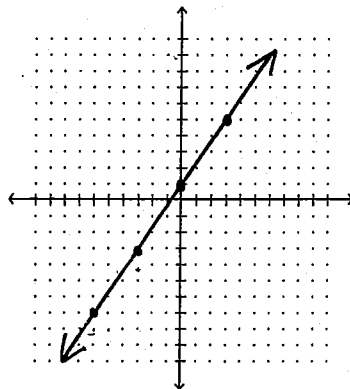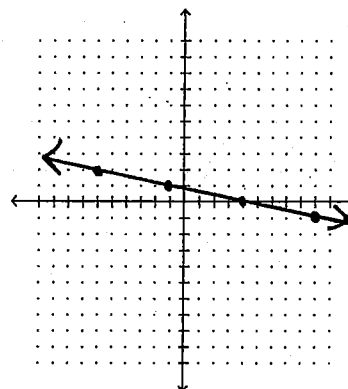**Find the slope of the line.**

1.   m = _____   2.   m = _____   3.   m = _____   4.   m = _____
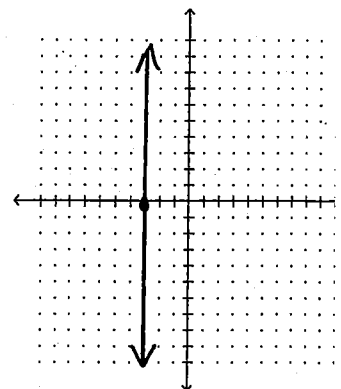
5.   What is the slope formula?   6.   What is the slope-intercept formula?

        How do we label our points?   What does m represent?
                                                             What does b represent?

Using the two points, find the slope using the slope formula. Show your substitution and ALL work.
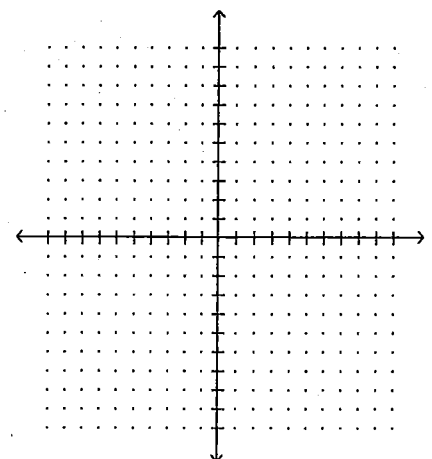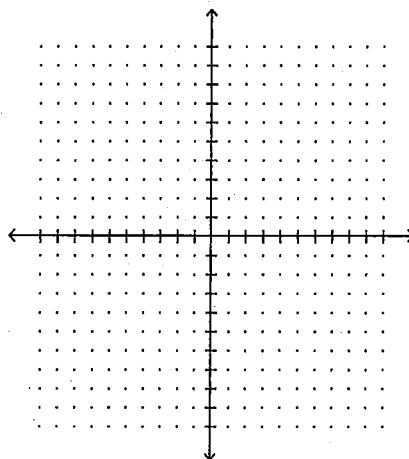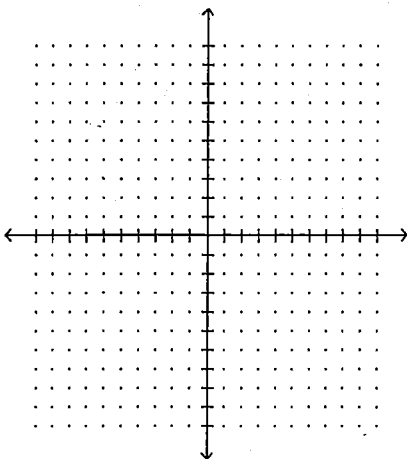7.   (−2, 5) (−7, 10)   8.   (−3, 7) (−8, 7)   9.   (0, 6) (6, 3)   10.   (4, −2) (4, −1)

Plot the two points on the graph and find the slope.
11. Points: (6, 5) and (−1, 3)   12. Points: (−2, −5) and (9, 1)   13. Points: (−7, 7) and (−7, 0)

        m = _____   m = _____   m = _____

14. a) What does HOY stand for?

   H

   O

   Y

   b) Sketch an example. Graph $y = -1$

15. a) What does VUX stand for?

   V

   U

   X

   b) Sketch an example. Graph $x = 2$

Identify the slope (m) and the y-intercept (b) of each equation, and then graph.

16. $y = -\frac{3}{4}x + 2$

   m = _____   b = _____

17. $y = 5x - 6$

   m = _____   b = _____

18. $x = -3$

   m = _____   b = _____

Write the equation of the line shown.

19. _____

20. _____

21. _____

Write the equation into slope-intercept form. Show all work!

23. $-y + 3x = 5$

24. $-2x + 4 = -12$

25. $2x - 3y = 9$

26. $4 + 2y = 12$