Unit 2 Linear Functions **Name:** _____

Day 2 Worksheet Rates of Change – Slope **Date:** _____ **Hour:** _____

Find the slope of the line passing through the given points.

$$slope\ (m) = \frac{rise \updownarrow}{run \rightarrow} = \frac{y_2 - y_1}{x_2 - x_1}$$

1. $(0,0),(3,5)$ _____

2. $(5,-2),(-7,4)$ _____

3. $(-6,3),(-2,-9)$ _____

4. $(6,-9),(-4,3)$ _____

5. $(-3,-11),(2,-7)$ _____

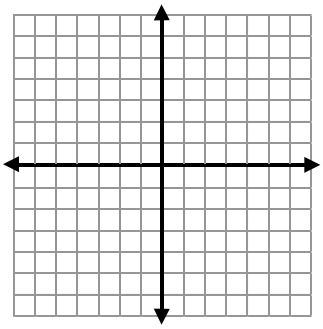
6. $(7,3),(-8,3)$ _____

7. $(-2,-3),(2,5)$ _____

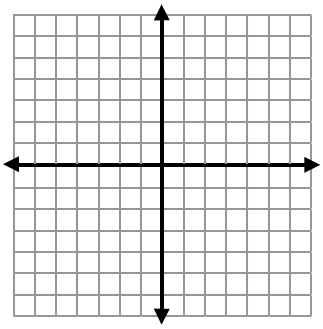
8. $(-4,8),(-4,-3)$ _____

Plot the line containing the given point with slope m.

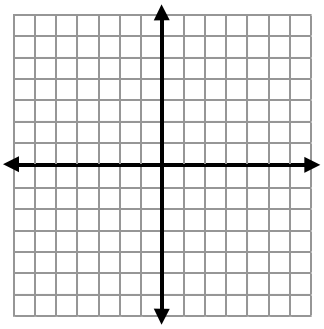
9. $(-2, 5)$; $m = -\frac{3}{4}$



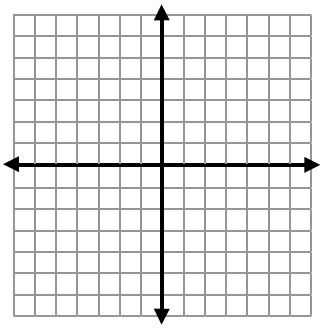
10. $(5,0)$; $m = 2$



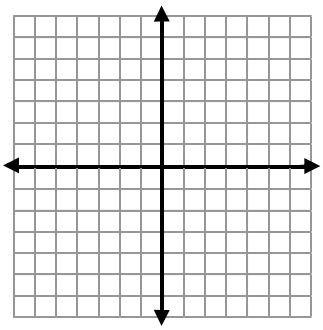
11. $(6,-4)$; *m undefined*



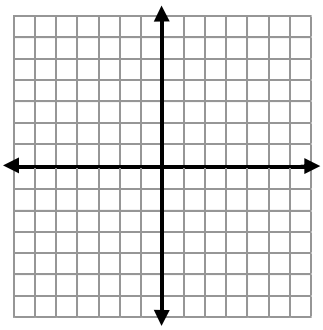
12. $(-5,3)$; $m = -1$



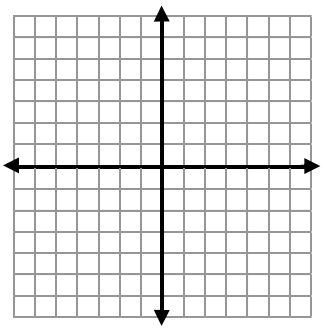
13. $(-4, -3)$; $m = \frac{1}{2}$



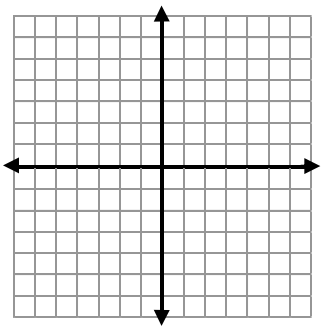
14. $(0,2)$; $m = -3$



15. $(-3,2)$; $m = 1$

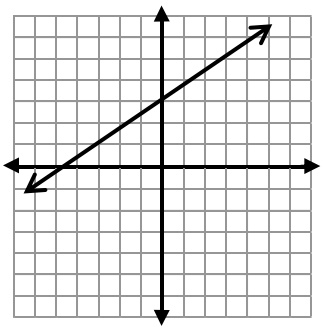


16. $(1,-2)$; $m = 0$

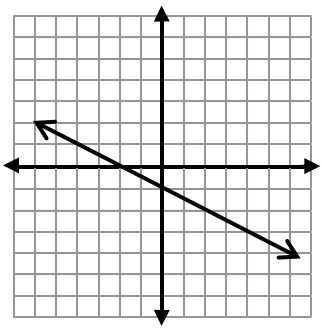


Find the slope of the given line. Does the line have positive, negative slope, or neither?

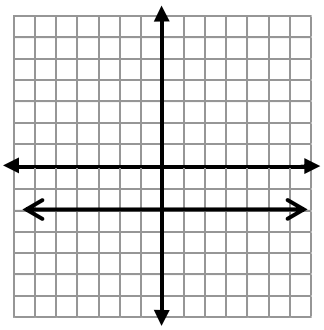
17. *Slope =*



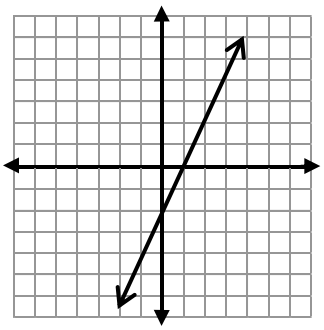
18. *Slope =*



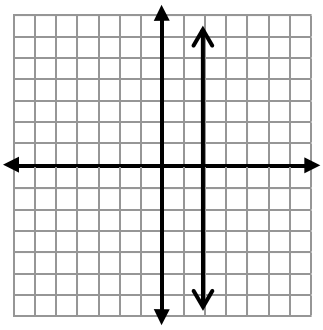
19. *Slope =*



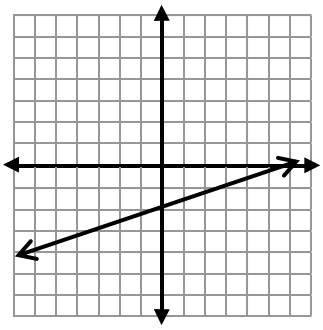
20. *Slope =*



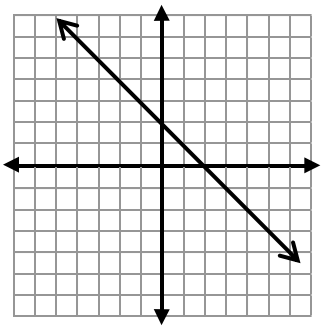
21. *Slope =*



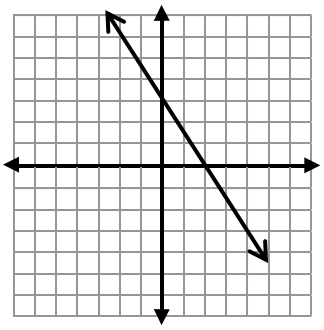
22. *Slope =*



23. *Slope =*



24. *Slope =*



25. What is the slope of the movie theatre at the right?