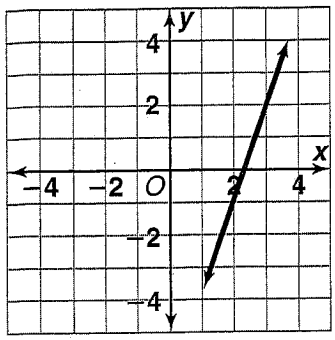
Name _____ Class _____ Date _____

Practice 11-4

Understanding Slope

Find the slope of each line.

1. 

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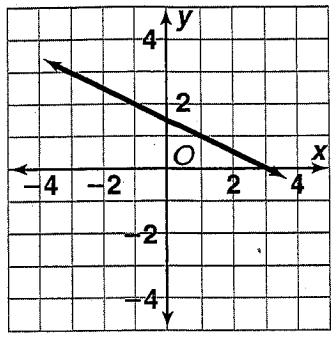
2. 

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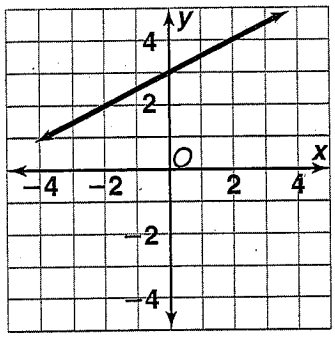
3. 

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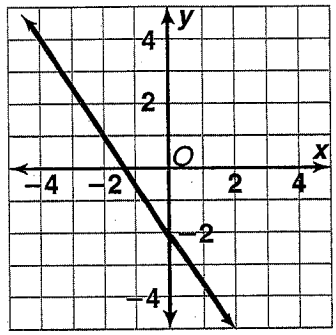
4. 

_____

The points from each table lie on a line. Use the table to find the slope of each line. Then graph the line.

5.

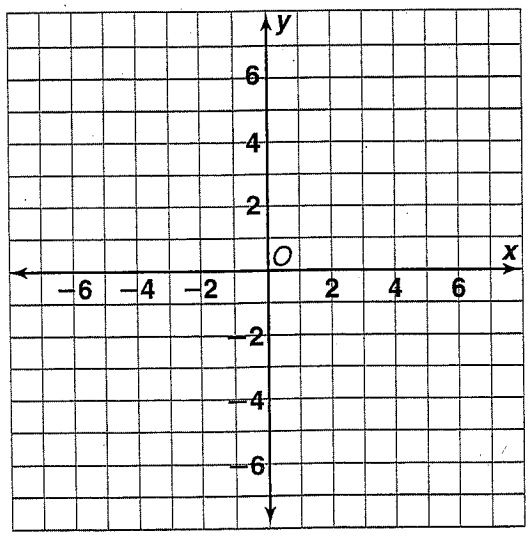
x	0	1	2	3	4
y	−3	−1	1	3	5

slope = _____

6.

x	0	1	2	3	4
y	5	3	1	−1	−3

slope = _____

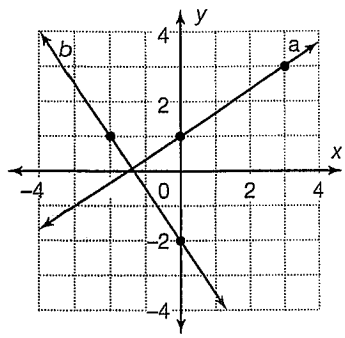


Name _____ Class _____ Date _____

Enrichment 11-4

Understanding Slope

Graph Patterns



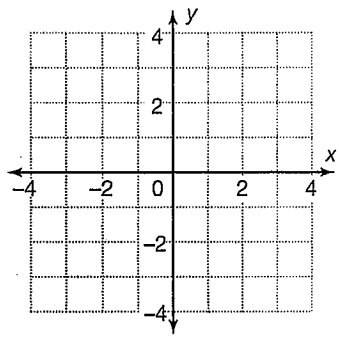
The lines on the graph intersect at only one point.

1. What is the slope of line *a*? _____

2. What is the slope of line *b*? _____

3. These lines are perpendicular. Multiply the slopes. Write the product.

_____



4. Graph these perpendicular lines:
$y = 4x - 4$ and $y = -\frac{1}{4} + 3$.

5. What is the slope of $y = 4x - 4$?

_____

6. What is the slope of $y = -\frac{1}{4}x + 3$?

_____

7. What is the product of these slopes?

_____

8. How are perpendicular lines and their slopes related?

_____

_____

_____

9. Write an equation for a line that is perpendicular to the line $y = 2x$.

_____

10. Write an equation for the line that has a y-intercept of -4 and is perpendicular to a line. Graph both lines. $y = \frac{3}{4}x$.

_____