Worksheet 1.5.3: Slope of a Line

A. True or False

Write True if the statement is true or False if it is false. One point each.

1. The slope of the line described by the equation $y = -3x$ is -3.
2. The slope of the line described by the equation $y = 4x - 1$ is -1.
3. The slope of the line described by the equation $y = \frac{3}{2}x + 2$ is 3.
4. The slope of the line described by the equation $y = -\frac{5}{4}x - 3$ is $-\frac{5}{4}$.
5. The slope of the line described by the equation $5x + y = 3$ is 5.

B. Finding the Slope Given Two Points

Find the slope of the line that passes through each pair of points. Choose the answer from the box. Some answers may be repeated. Write the letter only. One point each.

a. -4	e. $\frac{3}{4}$
b. -1	f. $\frac{3}{5}$
c. -10	g. $-\frac{3}{4}$
d. $\frac{15}{8}$	h. 1

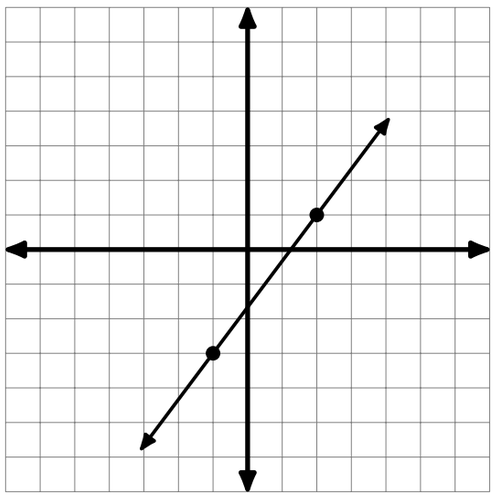
6. $(4, 3)$ and $(2, 1)$
7. $(-3, 2)$ and $(-5, 4)$
8. $(7, 5)$ and $(-3, -1)$
9. $(-3, -8)$ and $(5, 7)$
10. $(0, -5)$ and $(-3, 7)$
11. $(9, -7)$ and $(3, -1)$
12. $(5, -4)$ and $(9, -7)$
13. $(6, -6)$ and $(5, 4)$
14. $(3, 3)$ and $(-9, -6)$
15. $(8, 9)$ and $(4, 5)$

C. Finding the Slope Given the Graph

Find the slope of the line defined by each graph. Choose the answer from the box. Write the letter only. One point each.

a. $-\frac{6}{7}$	f. $\frac{2}{3}$
b. $\frac{7}{2}$	g. $\frac{5}{7}$
c. 0	h. -1
d. $-\frac{5}{3}$	i. undefined
e. $\frac{7}{5}$	j. $\frac{4}{3}$

16.



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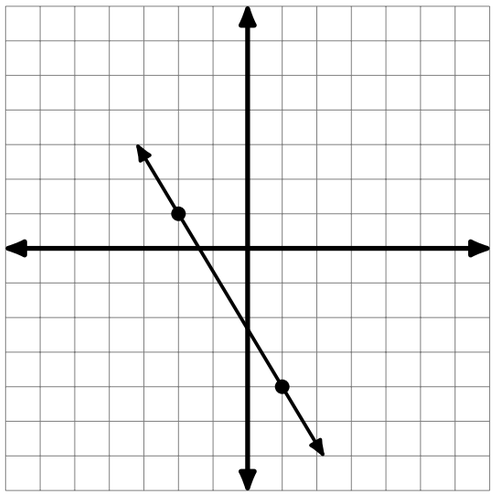

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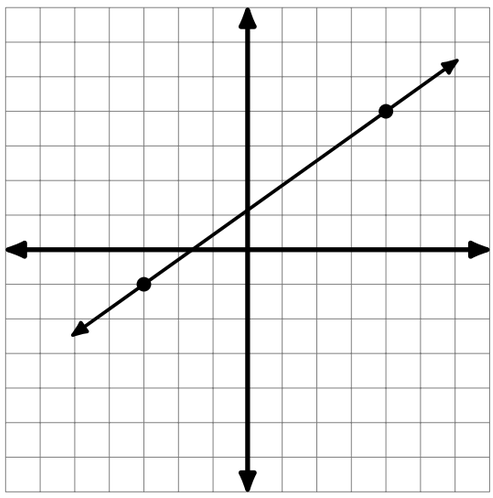

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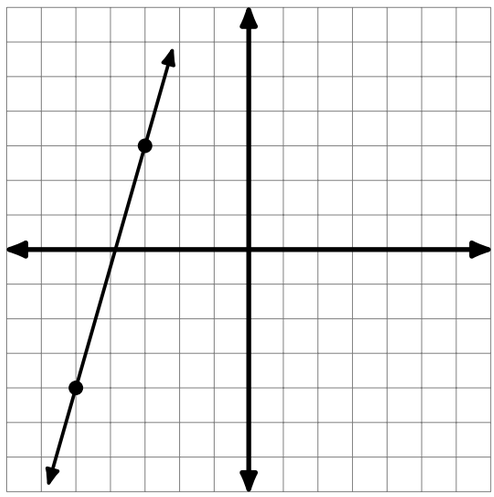

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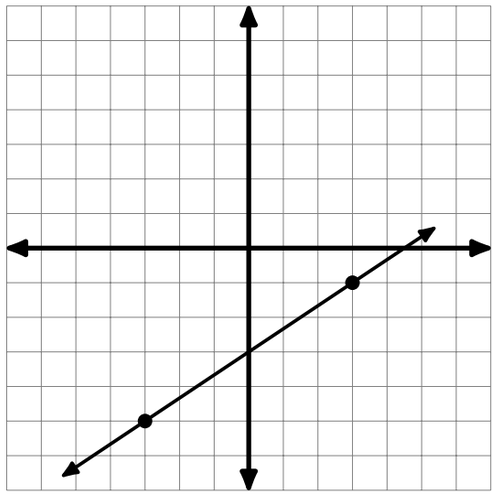

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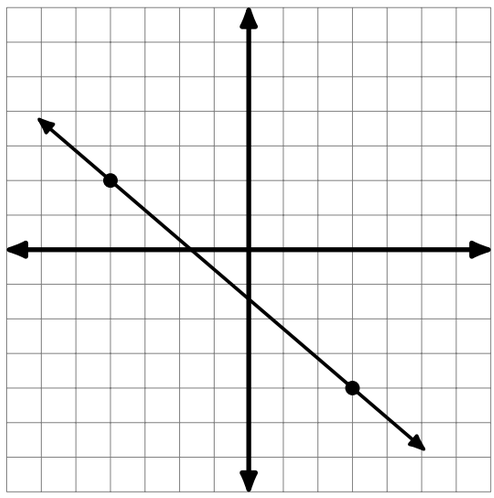

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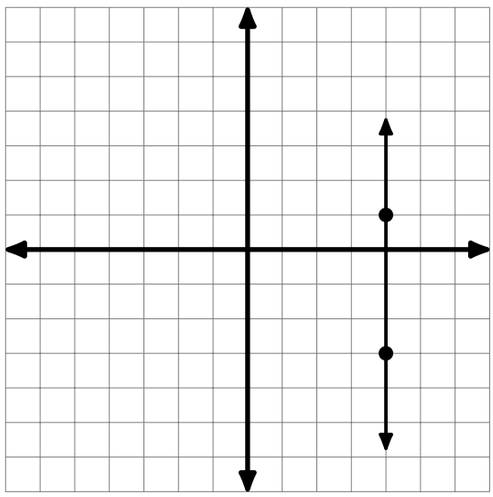

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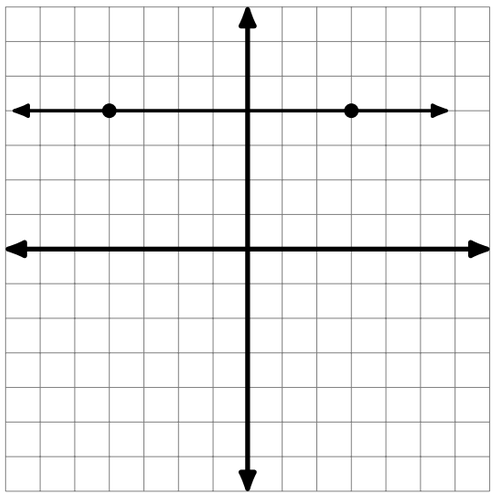

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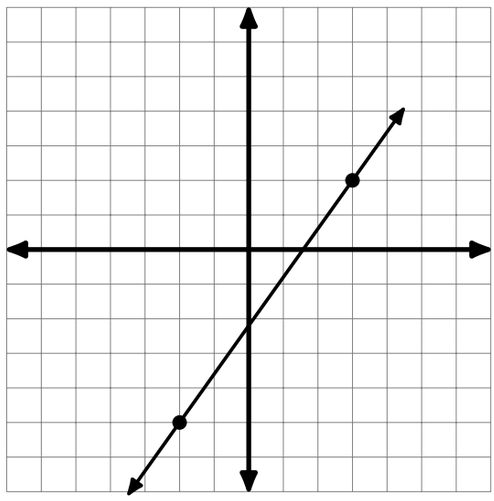
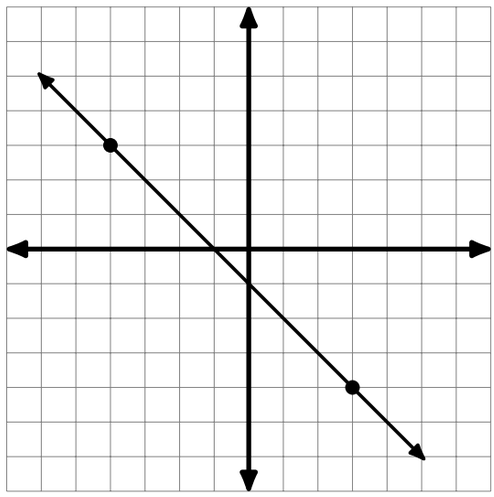
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