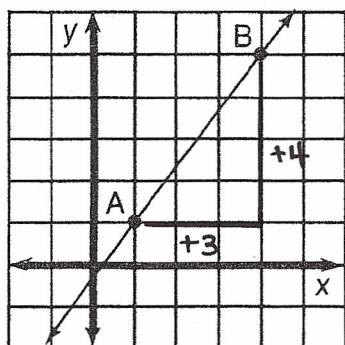


Practice : $m = \frac{\text{rise}}{\text{run}}$ $\frac{1}{1}$ $m = \frac{y_2 - y_1}{x_2 - x_1}$

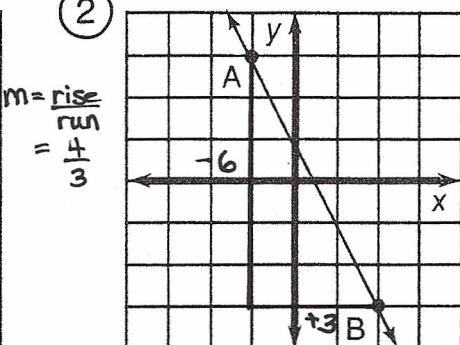
What Do You Call a Duck That Steals?

For the first six exercises, find the slope of the line \overleftrightarrow{AB} . For the remaining exercises, find the slope of the line that passes through the two given points. Cross out each box in the rectangle below that contains a correct answer. When you finish, print the letters from the remaining boxes in the spaces at the bottom of the page.

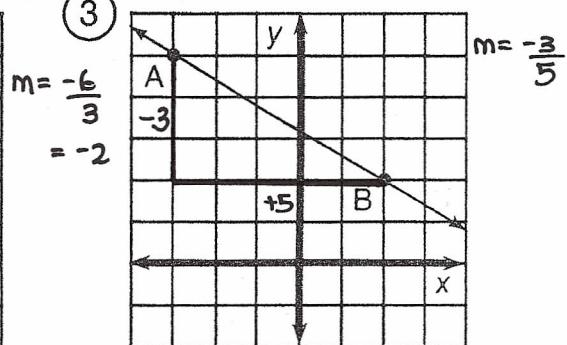
1



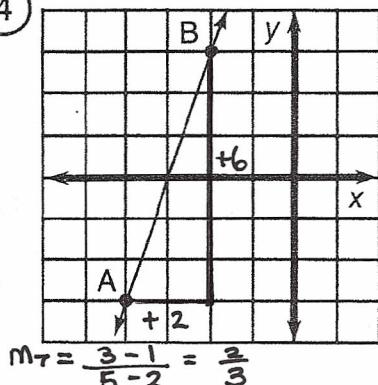
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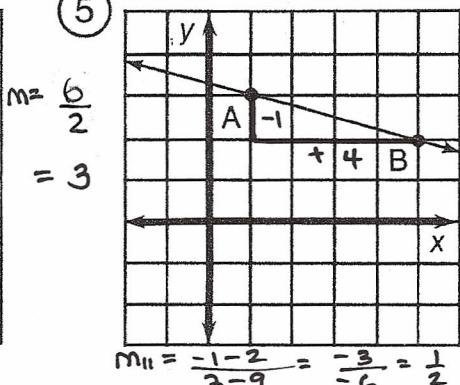
3



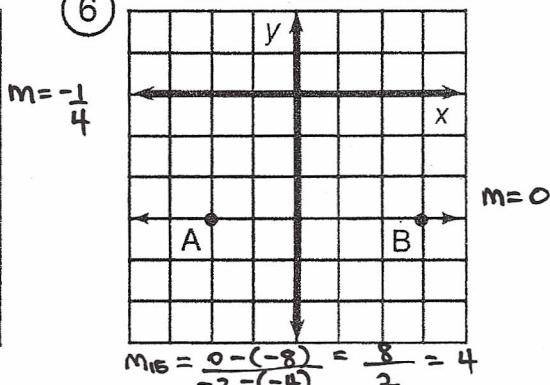
4



5



6



7

$$(2, 1); (5, 3) m_8 = \frac{5-3}{2-8} = \frac{2}{-6} = -\frac{1}{3}$$

11

$$(9, 2); (3, -1) m_{12} = \frac{2-(-1)}{9-3} = \frac{3}{6} = \frac{1}{2}$$

15

$$(-4, -8); (-2, 0) m_{16} = \frac{0-(-8)}{-2-(-4)} = \frac{8}{2} = 4$$

8

$$(8, 3); (2, 5) m_9 = \frac{5-3}{2-8} = \frac{2}{-6} = -\frac{1}{3}$$

12

$$(-5, 8); (-4, 2) m_{10} = \frac{8-2}{-5-(-4)} = \frac{6}{-1} = -6$$

16

$$(-3, -3); (0, 0) m_{17} = \frac{-3-0}{-3-0} = \frac{-3}{0} = \text{undefined}$$

9

$$(1, -4); (6, -2) m_{11} = \frac{-2-(-4)}{6-1} = \frac{2}{5}$$

13

$$(0, -1); (4, -7) m_{18} = \frac{-7-(-1)}{4-0} = \frac{-6}{4} = -\frac{3}{2}$$

17

$$(2, 5); (9, 1) m_{19} = \frac{1-5}{9-2} = \frac{-4}{7} = -\frac{4}{7}$$

10

$$(-3, 1); (-7, 4) m_{12} = \frac{4-1}{-7-(-3)} = \frac{3}{-4} = -\frac{3}{4}$$

14

$$(1, -1); (-2, -6) m_{13} = \frac{-6-(-1)}{-2-1} = \frac{-5}{-3} = \frac{5}{3}$$

18

$$(0, 0); (-2, 7) m_{14} = \frac{7-0}{-2-0} = \frac{7}{-2} = -\frac{7}{2}$$

DU	AB	CK	ST	AR	IG	AT	OB	IG	ET	BE	ST
0	-6	$-\frac{3}{5}$	$-\frac{4}{7}$	9	$\frac{1}{2}$	$-\frac{7}{2}$	$-\frac{7}{6}$	$\frac{4}{3}$	$\frac{2}{3}$	$-\frac{5}{4}$	$\frac{5}{3}$
$\frac{2}{5}$	$\frac{1}{6}$	$-\frac{1}{4}$	-2	-8	$-\frac{3}{2}$	1	$-\frac{1}{3}$	$-\frac{3}{4}$	$\frac{8}{5}$	4	3
A	R	O	B	B	E	R	D	U	C	K	Y

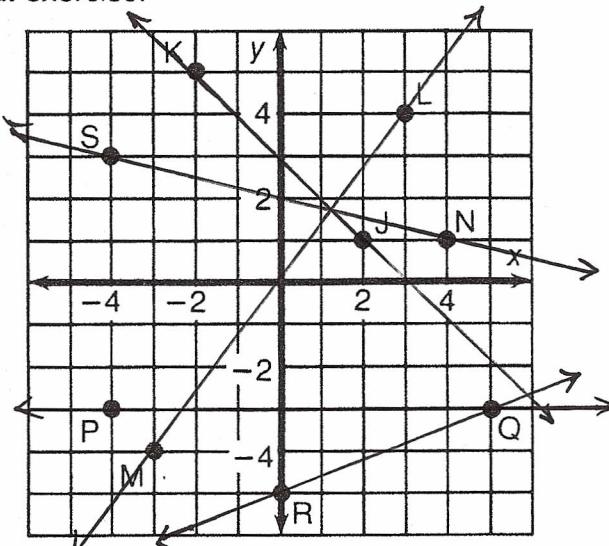
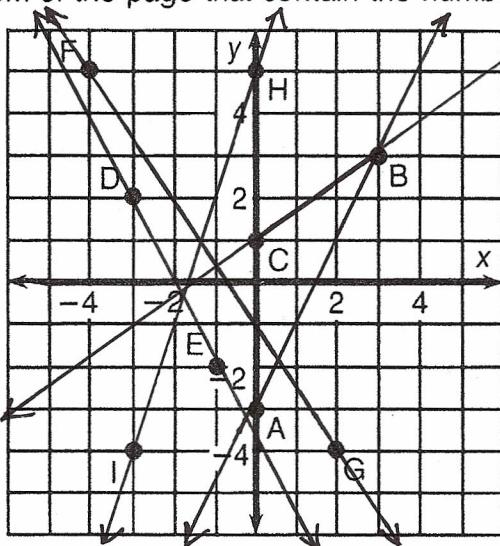
OBJECTIVE 5-h: To find the slope of a line given two points on the line (not using the graph).

ALGEBRA WITH PIZZAZZ!
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Practice: From a graph, writing $y = mx + b$.

What Did the Ape Think of the Grape's House?

For each exercise, draw the line indicated and write its equation. Find your answer in the answer section and notice the two letters next to it. Print these letters in the two boxes at the bottom of the page that contain the number of that exercise.



AS ① Equation of \overleftrightarrow{AB}
 $m = \frac{6}{3} = 2$ $b = -3$ $y = 2x - 3$

NE ② Equation of \overleftrightarrow{CB}
 $m = \frac{2}{3}$ $b = 1$ $y = \frac{2}{3}x + 1$

TH ③ Equation of \overleftrightarrow{DE}
 $m = -\frac{4}{2} = -2$ $b = -4$ $y = -2x - 4$

GH ④ Equation of \overleftrightarrow{FG}
 $m = -\frac{9}{6} = -\frac{3}{2}$ $b = -1$ $y = -\frac{3}{2}x - 1$

HE ⑤ Equation of \overleftrightarrow{HI}
 $m = \frac{9}{3} = 3$ $b = 5$ $y = 3x + 5$

OU ⑥ Equation of \overleftrightarrow{JK}
 $m = -\frac{4}{4} = -1$ $b = 3$ $y = -x + 3$

TI ⑦ Equation of \overleftrightarrow{LM}
 $m = \frac{8}{6} = \frac{4}{3}$ $b = 0$ $y = \frac{4}{3}x$

DE ⑧ Equation of \overleftrightarrow{NS}
 $m = -\frac{2}{8} = -\frac{1}{4}$ $b = 2$ $y = -\frac{1}{4}x + 2$

TW ⑨ Equation of \overleftrightarrow{PQ}
 $m = 0$ $b = -3$ $y = -3$

VI ⑩ Equation of \overleftrightarrow{RQ}
 $m = \frac{2}{5}$ $b = -5$ $y = \frac{2}{5}x - 5$

Answers:

8 DE $y = -\frac{1}{4}x + 2$ TT $y = \frac{2}{5}x$ EA $y = -2x + 3$

SA $y = \frac{4}{3}x - 1$ 2 NE $y = \frac{2}{3}x + 1$ 10 VI $y = \frac{2}{5}x - 5$

TH $y = -\frac{3}{2}x + 2$ 6 OU $y = -x + 3$ 3 TH $y = -2x - 4$

1 AS $y = 2x - 3$ 4 GH $y = -\frac{3}{2}x - 1$ 7 TI $y = \frac{4}{3}x$

5 HE $y = 3x + 5$ 9 TW $y = -3$ SH $y = \frac{2}{3}x + 5$

5	5	3	3	6	6	4	4	7	7	9	9	1	1	8	8	10	10	2	2
H	E	T	H	O	U	G	H	T	I	T	W	A	S	D	E	V	I	N	E