Nan Dot		Slope	of a Lina		Date:			Per:Per:					
Determine the Slope of a Line QUOTABLE PUZZLES—								Determine the Equation of a Line Slope and equations of lines					
Directions: 1. Find the slope for the following problems. 2. Match that answer to the correct letter of the alphabet. 3. Enter that letter of the alphabet on the blank corresponding to the problem number. 4. Write the equation of the line in point-slope form and then convert to slope intercept form.													
3	10 14	12	5 9	3	2 9	3	5	14 4	5			11 8	
A -2	B 1	C 4/7	D -1/9	E 2	F -4	G 6	H 1/5	I undefined	J 25	K -18	L -1/3	M -5	
N 2/7	O 3	P 2/5	Q 5/2	R 7/4	S 4	T	\mathbf{U}_{0}	V 1/2	W - ½	X -1	Y -3	Z -7/4	
	1. Find the (-2, 2), (3, -4)	_				8.	(2, 7),	(-5, 5)					
2. ((-5, 4), (-1,	11)				9.	(-4, -6	5), (-4, -8)					
3. (-2, -8), (1,	4)		10. (8, 3), (2, 5)									
4. (18, -4), (6, -	-10)			11. (5, -2), (9, -2)								
5. (12. (-3, 6), (-8, 4) 5. (3, 4), (4, 6)												
6. ((3, 6), (4, 4	4)			13	3. (4, 2)	(4, 2), (-5, 3)						

14. (6, 10), (3, 1)

7. (4, -5), (11, -1)

4. Write the equation in point-slope form and convert to slope intercept form

1. (-2, 2), (3, -3)

4. (18, -4), (6, -10)

2. (-5, 4), (-1, 11)

5. (3, 4), (4, 6)

3. (-2, -8), (1, 4)

6. (3, 6), (4, 4)

10. (8, 3), (2, 5)

8. (2, 7), (-5, 5)

11. (5, -2), (9, -2)

9. (-4, -6), (-4, -8)

12. (-3, 6), (-8, 4)

Independent Practice—

Slope and Equations of lines

Read and solve.

1. What is the slope of the line represented

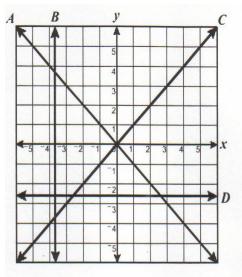
by
$$y = \frac{2}{3} x + 4$$
?

- A. $\frac{3}{2}$ B. $\frac{2}{3}$
- D. -2
- 3. What is the slope of the line that contains (4, -1) and (3, 3)?
 - A. -4
 - B. $-\frac{1}{2}$
 - C. $-\frac{1}{4}$
 - D. 2
- 4. What is the slope of the line 3x + y = 5?
 - A. 3

 - D. -3

- 2. Which describes the slope of the line that passes through (-7, 3) and (8, 5)?
 - A. Positive
 - B. Negative
 - C. Zero
 - D. Undefined
- 5. What is the slope of the line containing (-3, -1) and (1, -2)?
 - A. -4
 - B. $-\frac{1}{4}$
 - C. $\frac{1}{4}$
 - D. 4
- 6. What is the slope of the line 3x 6y = 15?
 - A.
 - B.
 - C.
 - D.
- 7. What is the slope of the line x = -3?
 - A. -3
 - 0 В.
 - C. Undefined 3
 - D.

8.



Which line on the graph has undefined slope?

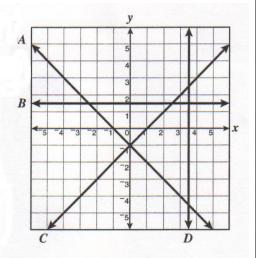
A

B

C

D

9.



Which line on the graph has an undefined slope?

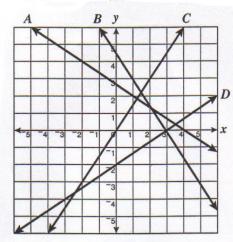
A A

 \mathbf{B} B

C C

D D

10.



Which line on the grid appears to have slope $\frac{2}{3}$?

F A

G B

 \mathbf{H} C

J D

Find the number that belongs in the space by **building** or **reducing** equivalent fractions.

1)
$$\frac{1}{2} = \frac{1}{10}$$

2)
$$\frac{2}{3} = \frac{15}{15}$$

3)
$$\frac{5}{6} = \frac{12}{12}$$

4)
$$\frac{3}{4} = \frac{1}{12}$$

5)
$$\frac{2}{5} = \frac{20}{20}$$

6)
$$\frac{5}{7} = \frac{1}{21}$$

7)
$$\frac{3}{6} = \frac{1}{2}$$

8)
$$\frac{6}{8} = \frac{4}{4}$$

9)
$$\frac{8}{10} = \frac{1}{5}$$

10)
$$\frac{12}{24} = \frac{1}{2}$$

11)
$$\frac{5}{30} = \frac{1}{6}$$

12)
$$\frac{7}{14} = \frac{7}{2}$$

13)
$$\frac{2}{7} = \frac{35}{35}$$

14)
$$\frac{7}{42} = \frac{1}{6}$$

15)
$$\frac{10}{15} = \frac{1}{3}$$

16)
$$\frac{1}{8} = \frac{1}{24}$$

17)
$$\frac{1}{3} = \frac{1}{24}$$

18)
$$\frac{20}{22} = \frac{11}{11}$$

19)
$$\frac{21}{42} = \frac{1}{2}$$

20)
$$\frac{17}{51} = \frac{1}{3}$$

21)
$$\frac{10}{30} = \frac{1}{3}$$