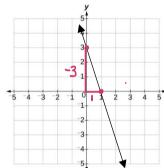
Module 2 - Topic 2 Quiz Review

1. Find the slope of the line represented in the table.

	X	у	
- /	₹ 5	2 ^)2
5 (. 10	4) =
	20	8	
	35	14	
	40	16	

Slope =
$$\frac{2}{5}$$

2. Find the slope of the line shown in the graph.



Slope =
$$-3$$

3. Determine if the points in the following tables will make a straight line or not and explain how you know.

x 1 2 3	y 5 10 s) 5) 5	
Yes) The ta		$\frac{y}{x} = \frac{y}{x}$	5
a consi of chan Same	tant r	ate f5.	

77				
X	У			
2 1	4 7 4			
\ 3	8 4			
3 6	16	u	8	Ц
		ي	=출 =	7
		^	J.	J.
Yes	(No)		8	2
			8/3	
There	is ho			
const	and not	0		

16 7 4 8 4	94 10 11 7
$\frac{3}{2}$ $\frac{3}{2}$ $\frac{2}{3}$ $\frac{2}{3}$ $\frac{8}{3}$ $\frac{2}{3}$	Yes/No $\frac{y}{x}$ $\frac{6}{6}$ $\frac{2}{2}$ The table has 1
tant rate	a constant rate
nange. The e is different ween points.	of change of 1. SAME SLOPE: 1

4. What is the slope of the line that contains the points (4, 7) and (10, 9)? x1 y1 x2 y2

Slope Formula:
$$m = \frac{y_{a} - y_{1}}{x_{a} - x_{1}}$$
 $m = \frac{9 - 7}{10 - 4} - \frac{2}{6} = \frac{1}{3}$

$$m = \frac{9-7}{10-4} = \frac{2}{6} = \frac{1}{3}$$

Slope =
$$\frac{1}{3}$$

9-13: Use the following information to answer the following questions.

- Chris is throwing a Super Bowl party. He wants to have the party catered by either Rattler's or Stone Fire
- Rattler's charges \$40 for catering and \$4 for each person that attends.
- Stone Fire charges \$12 for each person who attends.
- 5. What is the equation that shows the Cost (C) of having Rattler's cater for (p) people?

A.
$$p = 4C + 40$$

B.
$$C = 4p + 40$$

C.
$$p = 40C + 4$$

D.
$$C = 40p + 4$$

6. What is the equation that shows the Cost (C) of having Stone Fire cater for (p) people?

A.
$$p = 12$$

B.
$$p = 12C$$

C.
$$C = 12$$

D.
$$C = 12p$$

7. Complete the table for **Rattler's** comparing the number of people (p) who attend to Cost (C).

People (p)	Cost (C)
0	40
1	44
2	48
3	52 56
4	59
5	60

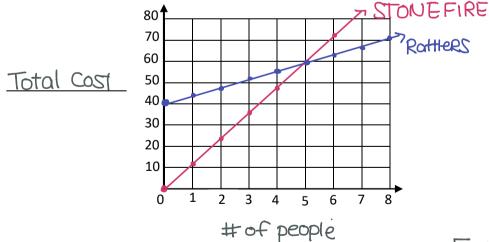
Rattler's

8. Complete the table for **Stone Fire** comparing number of people (p) who attend to Cost (C).

People (p)	Cost (C)
0	0
1	12
2	24
3	36 48
4	48
5	60

Stone Fire

9. Plot the points using the information above for Rattler's and Stone Fire. Make sure you label each line.



- 10. How many people need to attend the party for the cost to be the same? 5 people
- 11. What will the cost be when it is the same?
- 12. Give an example of a number of people for when would it be cheaper to go to Rattler's? more than 5
- 13. Give an example of a number of people for when it would be cheaper to go to Stone Fire? Less than 5