

Name: _____ Period: _____

FINDING SLOPE #2 (Using slope formula)

Find the slope using the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$

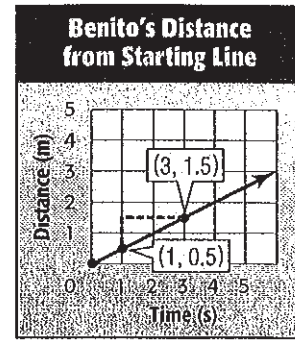
1. Find the slope using points: (2, 2) and (-5, 4)
2. Find the slope using points: (3, 9) and (-5, 3)
3. Find the slope using points: (5, 5) and (4, 2)
4. Find the slope using points: (5, 7) and (2, 7)
5. Find the slope using points: (-4, 0) and (12, 2)
6. Find the slope using points: (2, 5) and (-6, -3)
7. Find the slope using points: (-8, -2) and (1, 4)
8. Find the slope using points: (0, -3) and (-4, 2)
9. Find the slope using points: (5, 1) and (9, 4)
10. Find the slope using points: (-10, 6) and (-5, 8)
12. Find the slope using points: (7, -3) and (11, -4)
12. Find the slope using points: (13, 0) and (-2, -12)

Rate of Change

1. Use the information in the table to find the rate of change in degrees per hour.

Temperature (°F)	54	57	60	63
Time	6 A.M.	8 A.M.	10 A.M.	12 P.M.

2. **DISTANCE** The graph shows Benito's distance from the starting line. Use the graph to find the rate of change.



3. **SNACKS** The table below shows the number of small packs of fruit snacks y per box x . Graph the data. Then find the slope of the line. Explain what the slope represents.

Boxes (x)	3	5	7	9
Packs (y)	24	40	56	72

Practice and Problem Solving

For Exercises 4 and 5, find the rate of change for each table.

4.

Time (s)	Distance (m)
0	6
1	12
2	18
3	24

5.

Time (h)	Wage (\$)
0	0
1	9
2	18
3	27

6. The number of minutes included in different cell phone plans and the costs are shown in the table. What is the approximate rate of change in cost per minute?

Cost (\$)	38	50	62	74	86
Minutes	1,000	1,500	2,000	2,500	3,000

For Exercises 7 and 8, find the rate of change for each graph.

