

Name _____

Date _____ Pd. _____

Notes: Slope Day 2

Slope (rate of change)	The measure of the _____ of a line as you look at it from _____. A numerical value for slope is found using two points on the line and dividing the change in _____ by the change in _____.
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$$\text{_____} = \frac{\text{change in}}{\text{change in}} = \text{_____} = \frac{\Delta y}{\Delta x}$$

all represent the same slope for a line

An increasing line has a _____ slope and
a decreasing line has a _____ slope.

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Exit Card: Slope Day 2

1. If the points $(4, -5)$ and $(6, r)$ are on a line with slope 3, what is the value of r ?

- F. -2 G. 1 H. 3 J. 11

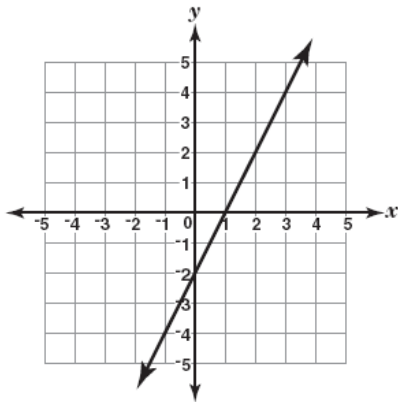
2. Two students measured their height and how far they could long jump and recorded the information in the table below:

Name	Height (x)	Jump Length (y)
Ivan	157 cm	120 cm
Ruth	169 cm	123 cm

Ruth plotted this data on a coordinate grid. What is the slope of the line containing these two points?

	/	/	/	
•	•	•	•	•
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

3. Look at the graph below.



What is the slope of the line?

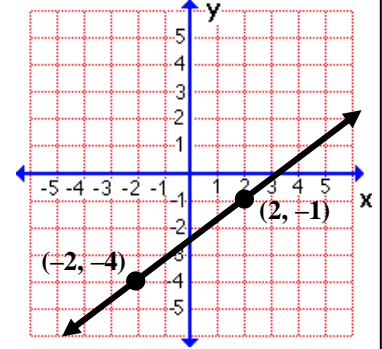
- A -2
 B $-\frac{1}{2}$
 C $\frac{1}{2}$
 D 2

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Homework: Pages 260 – 261 (15, 18, 27, 30, 32, 35, 39)

15. Find the slope of the line that passes through the points on the graph.



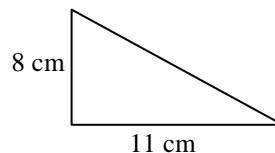
18. Find the slope of the line that passes through $(-3, 3)$ and $(1, 3)$.

27. Find the slope of the line that passes through $(-2, 3)$ and $(8, 3)$.

30. Find the slope of the line that passes through $(-2, 0)$ and $(1, -1)$.

32. Find the slope of the line that passes through $(0.75, 1)$ and $(0.75, -1)$.

35. Estimate the slope.



39. A ladder reaches a height of 16 feet on a wall. If the bottom of the ladder is placed 4 feet away from the wall, what is the slope of the ladder as a positive number?