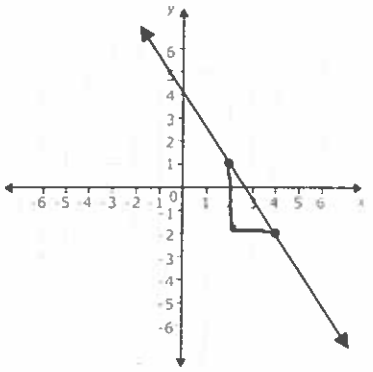
Finding Slope Review

NAME:

DATE: HR:

Find the slope of each line.

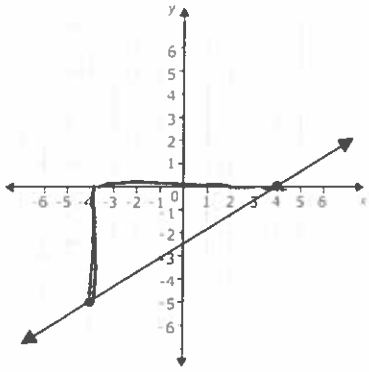
1.



Rise / Run

Slope = $-\frac{3}{2}$

2.



Slope = $\frac{5}{8}$

Find the slope of the line that contains the points:

3. (-3, -7) and (9, 2)

$\frac{\Delta y}{\Delta x} = \frac{-7-2}{-3-9} = \frac{-9}{-12} = \frac{9}{12} = \frac{3}{4}$

4. (3, 1) and (8, 1)

$\frac{\Delta y}{\Delta x} = \frac{1-1}{3-8} = \frac{0}{-5} = 0$

5. (-3, 7) and (0, 0)

$\frac{\Delta y}{\Delta x} = \frac{7-0}{-3-0} = \frac{7}{-3}$

Use the tables to find the slope of the linear function.

6.

X	Y
3	0
6	9
9	18
12	27

3 → 9, 3 → 9, 3 → 9

$\frac{\Delta y}{\Delta x} = \frac{9}{3} = \frac{3}{1}$

7.

X	Y
-1	8
0	6
1	4
2	2

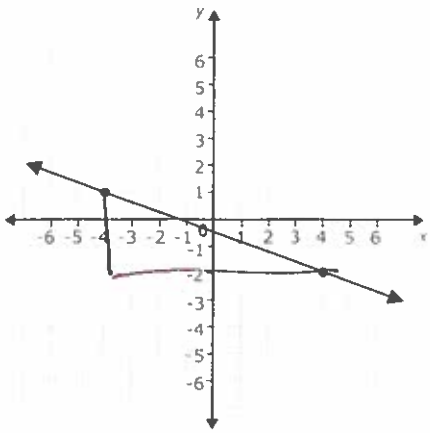
$\frac{\Delta y}{\Delta x} = \frac{-2}{1}$

8.

X	Y
0	1
10	2
20	3
30	4

$\frac{\Delta y}{\Delta x} = \frac{1}{10}$

9. Which linear function below has the steepest slope?



$\frac{\Delta y}{\Delta x} = \frac{-3}{8}$

A line that contains points (2, 0) and (8, -9)

$\frac{\Delta y}{\Delta x} = \frac{-9}{6} = -\frac{3}{2}$

Steeper ↗

10. Mr. Fillenworth is growing tomatoes and notices that they grow at a constant rate. He planted a few seeds and measured their growth over 4 days after sprouting. He is going to graph the data for this linear function. What is the slope of the line that Mr. Fillenworth will graph?

Day	Height (mm)
1	5
2	10
3	15
4	20

$\frac{\Delta Y}{\Delta X} = \frac{\Delta mm}{\Delta day} = \frac{5}{1}$ They grow 5 mm per day