Unit 2, Lesson 10: Meet Slope

NAME DATE PERIOD

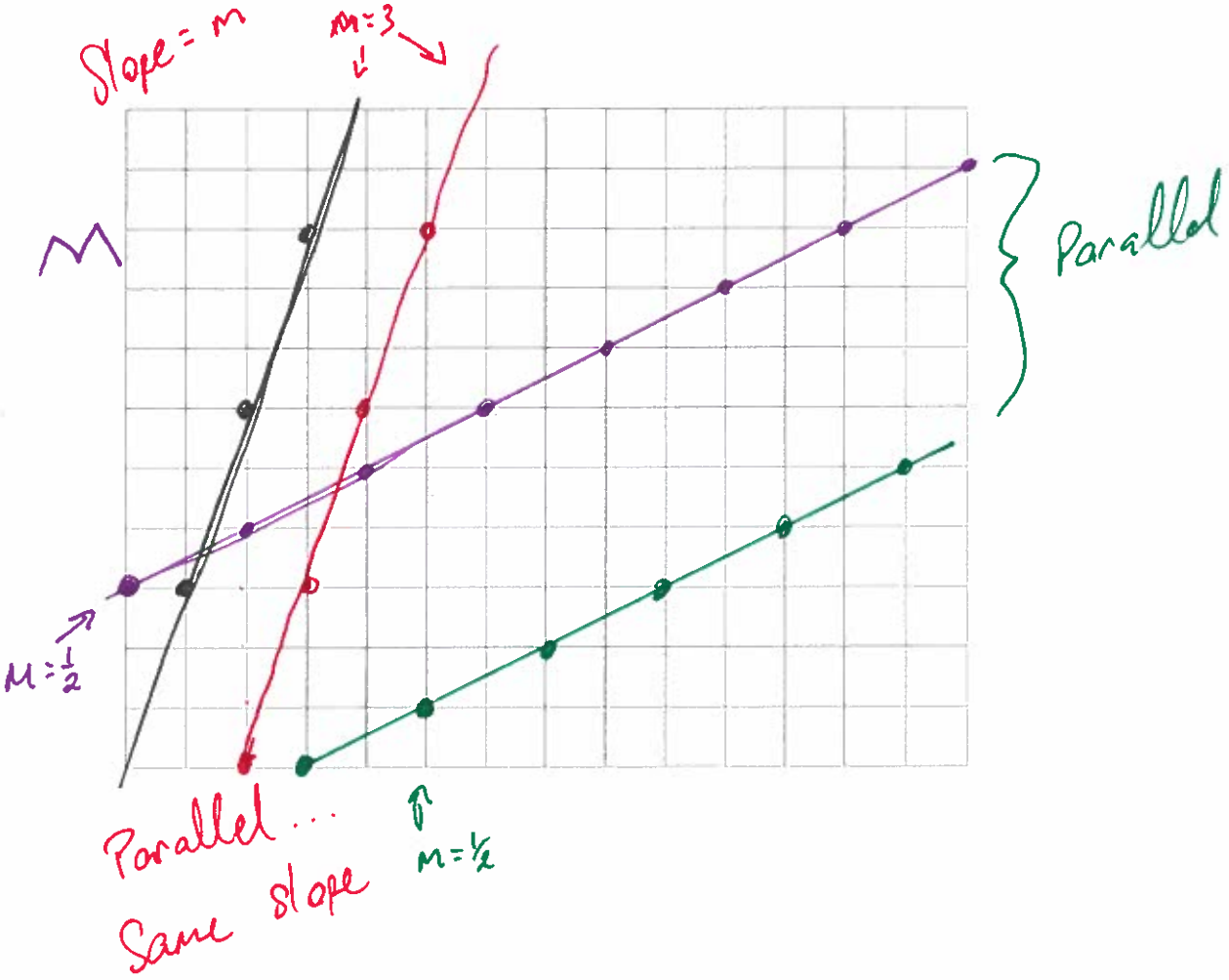
$\frac{\Delta Y}{\Delta X} = \frac{\text{Rise}\uparrow}{\text{Run}\rightarrow}$

10.3: Multiple Lines with the Same Slope

1. Draw two lines with **slope** 3. What do you notice about the two lines?

$\searrow \frac{3}{1}$

2. Draw two lines with slope $\frac{1}{2}$. What do you notice about the two lines?



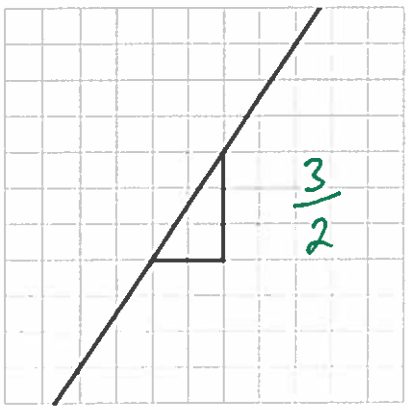
Unit 2, Lesson 10: Meet Slope

NAME DATE PERIOD

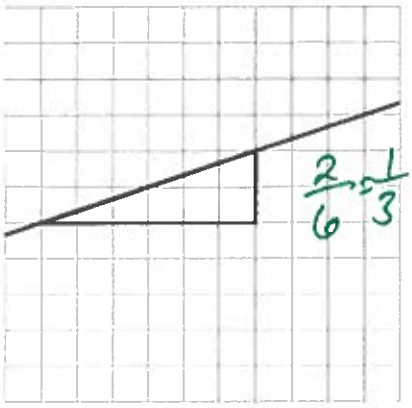
10.4: Different Slopes of Different Lines

$m = \frac{\Delta y}{\Delta x} = \frac{\text{Rise} \uparrow}{\text{Run} \rightarrow}$

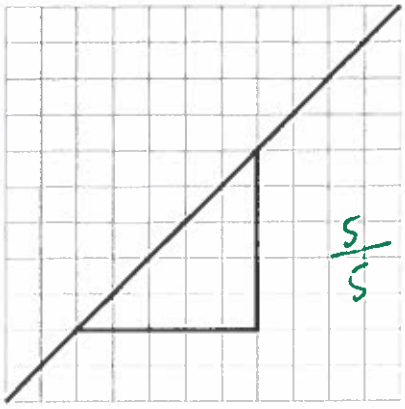
Here are several lines.



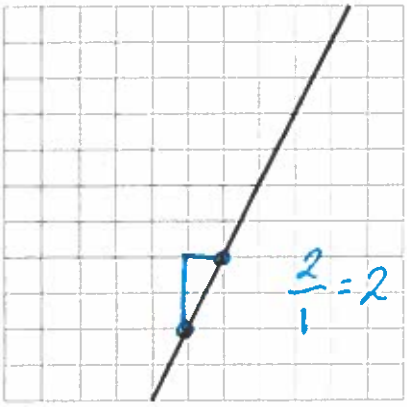
A



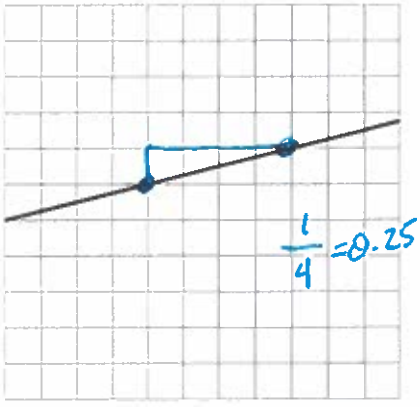
B



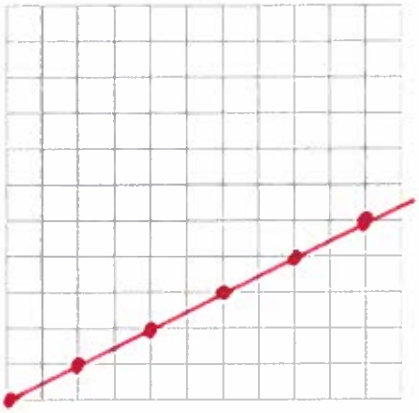
C



D



E



F

1. Match each line shown with a slope from this list: $\frac{1}{3}$, 2, 1, 0.25, $\frac{3}{2}$, $\frac{1}{2}$.

2. One of the given slopes does not have a line to match. Draw a line with this slope on the empty grid (F).

These four triangles are all examples of *slope triangles*. One side of a slope triangle is on the line, one side is vertical, and another side is horizontal. The **slope** of the line is the quotient of the length of the vertical side and the length of the horizontal side of the slope triangle. This number is the same for *all* slope triangles for the same line because all slope triangles for the same line are similar.

8th Grade Math

Name_____

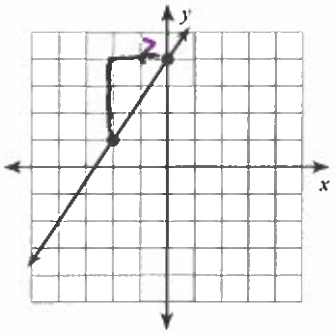
Finding Slope from a Graph

Date_____ Period____

Find the slope of each line.

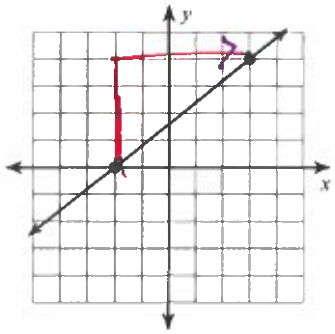
$\frac{\Delta Y}{\Delta X} = \frac{\text{Rise}}{\text{Run}}$

1)



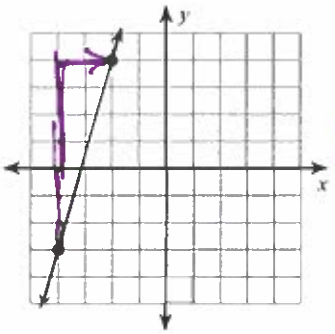
$\frac{\Delta Y}{\Delta X} = \boxed{\frac{3}{2}}$

2)



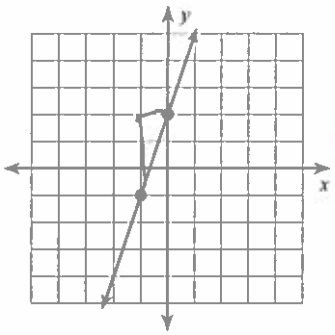
$\frac{\Delta Y}{\Delta X} = \frac{\text{Rise}}{\text{Run}} = \boxed{\frac{4}{5}}$

3)



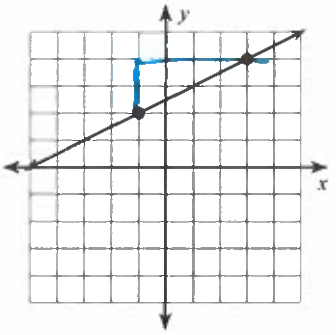
$\frac{\Delta Y}{\Delta X} = \boxed{\frac{7}{2}}$

4)



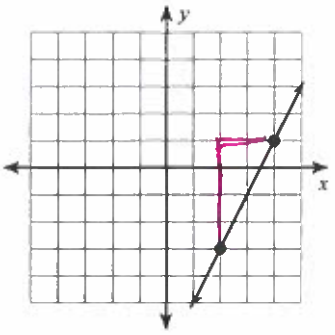
$\frac{\Delta Y}{\Delta X} = \boxed{\frac{3}{1} \text{ OR } 3}$

5)



$\frac{\Delta Y}{\Delta X} = \frac{2}{4} = \boxed{\frac{1}{2}}$

6)



$\frac{\Delta Y}{\Delta X} = \frac{4}{2} = \boxed{\frac{2}{1} \text{ OR } 2}$