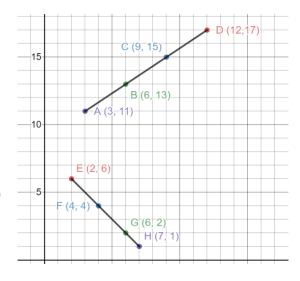
Section 2.3 – Practice Problems

1. Ryder is reviewing the schematics for his roofing project. He drew the two roof sections on the grid (See Below). He needs to check to see if the pitch of the roof is constant. Use the table below to check, what changes may be needed?

Line Segment	Rise	Run ¥2~×1	Slope Rise /Run
AD	7-6	12-3=9	9/9
ВС	15-13	9-6	2/3
ЕН	1-6	7-2	-5=[-]
FG	2-4	(-4	-3/2:-1



Work Space if required:

Remember: Rise = 12-41
Run x2-x1

2. What is the slope of the line segment that joins the pair of points?

a)
$$(4,1)$$
 and $(-6,-2)$

$$\frac{-2-1}{-6-4} = \frac{-3}{-10} = \begin{bmatrix} 3\\10 \end{bmatrix}$$

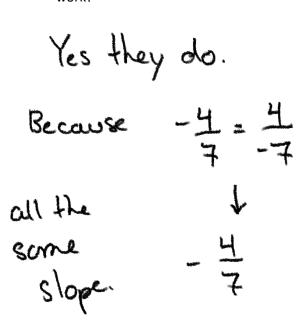
b)
$$(-9,3)$$
 and $(5,-7)$

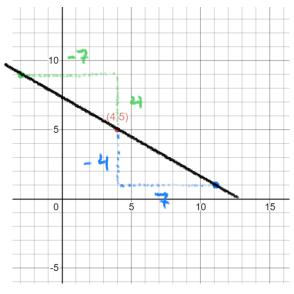
$$\frac{-7-3}{5-(-9)} = \frac{-10}{14} = \begin{bmatrix} -5\\ 7 \end{bmatrix}$$

c)
$$(5,-2)$$
 and $(6,1)$

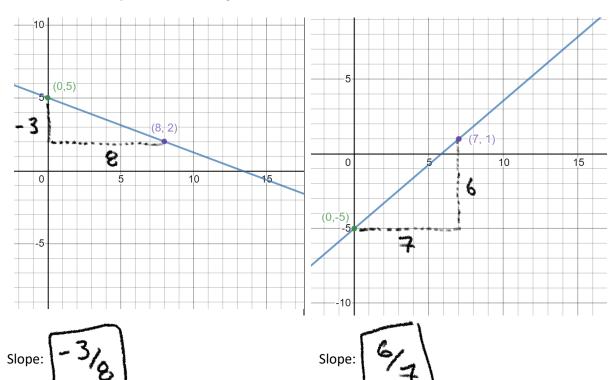
d)
$$(-4, -1)$$
 and $(6, 2)$

3. Draw a straight line through the point (4,5) with a slope of: $\frac{-4}{7}$. Mark that point on the line. Repeat from the original point but using a slope of: $\frac{4}{-7}$. Do the point line up? Why does this work?





4. What is the slope of the following lines?



5. Create a drawing on the grid provided. Identify at least 6 different lines and tell me their slopes.

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Line Segment #1	Line Segment #2	Line Segment #3
Slope:	Slope:	Slope:
Line Segment #4	Line Segment #5	Line Segment #6
Slope:	Slope:	Slope: