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**Unit 19 – HWK #2 Getting Ready for 9th Grade**

*Graphing on the Coordinate Grid with Point Slope Form*

**Directions**: Answer the following question with a minimum of 2 complete sentences. Give examples as you justify your answer

1. What is the difference between writng the equation of a line in slope intercept form and in point slope form?

## Directions: Complete the following. Show your work and the methods you use.

## Write the equation of the line with the given information in point slope form.

a. Passes through (2, 3) and has slope of –½ . b. Passes through (-1, 4) and m = 4.

c. Passes through (0, 2) and has slope of –5/3. d. Passes through (4, -2) and m = 0.

e. Passes through (-4, 6) and (-2, 5) f. Passes through (-1, -7) and (1, 3)

## Using the given equation in point slope form identify the slope and a point on each line.

a. y + 2 = 2/3 (x – 4) b. y – 3 = ½ (x – 3)

c. y + 5 = ¼ (x + 2) d. Y = 2 (x + 3)

e. y – 8 = -3 (x + 1) f. Y + 3 = -1/5

## Directions: Graph each of the following lines by first giving the point and the slope. Be sure to number each axis.

13. y + 2 = 1/3 (x + 1) 14. y + 3 = 0 (x –3)

 Point Slope

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Point Slope

15. y – 3 = -2 (x – 4) 16. y – 5 = 3 x

 Point Slope

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