Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_

**4.7A Point-Slope Form\_Classwork**

*Objective: write equations of lines using a slope and a point; write equations of lines using two points. CC.SS.8.F.4*

*HW: 4.7A worksheet*



***Graph each of the following lines by first giving the point and the slope.***

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| 1. $y+2=\frac{1}{3}(x+1)$Point \_\_\_\_\_\_\_\_\_\_\_ Slope \_\_\_\_\_\_\_\_\_\_\_ Image result for graph  | 2. $y+1=-\frac{1}{2}(x-3)$Point \_\_\_\_\_\_\_\_\_\_\_ Slope \_\_\_\_\_\_\_\_\_\_\_  Image result for graph |
| 3. $y-3=-2(x-4)$Point \_\_\_\_\_\_\_\_\_\_\_ Slope \_\_\_\_\_\_\_\_\_\_\_  Image result for graph | 4. $y-5=3x$Point \_\_\_\_\_\_\_\_\_\_\_ Slope \_\_\_\_\_\_\_\_\_\_\_   Image result for graph |
| 1. Write an equation in point-slope form of the line that passes through the point (1, 2) and has a slope of 4.
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| 1. Write an equation in point-slope form of the line that passes through the point (-7, 3) and has m = ½.
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| 1. Write an equation in point-slope form of the line that passes through the point (-2, -5) and (0, -3).
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| 1. Write an equation in point-slope form

Step 1: Identify one point on line: \_\_\_\_\_Step 2: Calculate slope: \_\_\_\_\_\_\_\_\_\_\_\_\_Step 3: Write equation: \_\_\_\_\_\_\_\_\_\_\_\_\_Image result for linear function | 1. Write an equation in point-slope form

Step 1: Identify one point on line: \_\_\_\_\_Step 2: Calculate slope: \_\_\_\_\_\_\_\_\_\_\_\_\_Step 3: Write equation: \_\_\_\_\_\_\_\_\_\_\_\_\_Image result for linear function |