FLUENCY PRACTICE: Finding Linear Functions from Point and Slope

Name:_____

Period:

Directions: Find the **Point-Slope form** of each line with the given information.

- 1. What is the **point-slope form** of the linear function that is **parallel** to $y = \frac{3}{2}x 6$ and goes through (3, -7)?
- 2. What is the **point-slope form** of the linear function that is **perpendicular** to 3x-4y=-16 and goes through (-5, 2)?

- 3. What is the **point-slope form** of the linear function that is **perpendicular** to $y-3=-\frac{3}{2}(x+10)$ and goes through (4, 8)?
- 4. What is the **point-slope form** of the linear function that is **parallel** to 5x + 2y = 25 and goes through (-8, -1)?

Directions: Find the Slope-Intercept form of each line with the information. Show all work!

- 5. What is the **slope-intercept form** of the linear function that is **parallel** to $y + 6 = -\frac{3}{5}(x+1)$ and goes through (-10, -6)?
- 6. What is the **slope-intercept form** of the linear function that is **perpendicular** to y = -3x + 5 and goes through (6, 8)?

- 7. What is the **slope-intercept form** of the linear function that is **perpendicular** to $y = \frac{1}{2}x 7$ and goes through (3, -6)?
- 3. What is the **slope-intercept form** of the linear function that is **parallel** to x-4y=12 and goes through (-7, 5)?

- 9. What is the **slope-intercept form** of the linear function that is **perpendicular** to 3x + 2y = 10 and goes through (4, 7)?
- 10. What is the **slope-intercept form** of the linear function that is **parallel** to $y-4=-\frac{3}{5}(x-7)$ and goes through (2, -6)?