FLUENCY PRACTICE: Finding Linear Functions from Point and Slope

Name:_____ Period:_____

Directions: Find the **Point-Slope form** of each line with the given point and slope.

1. What is the **point-slope form** of the linear function that goes through (5, 7) and has a slope of $-\frac{2}{3}$?

2. What is the **point-slope form** of the linear function that goes through (-8, 2) and has a slope of $\frac{4}{5}$?

3. What is the **point-slope form** of the linear function that goes through (9, -2) and has a slope of -5?

4. What is the **point-slope form** of the linear function that goes through (-1, -6) and has a slope of $\frac{1}{2}$?

Directions: Find the **Slope-Intercept form** of each line with the given point and slope.

5. What is the **slope-intercept form** of the linear function that goes through (-6, 4) and has a slope of $\frac{5}{3}$?

6. What is the **slope-intercept form** of the linear function that goes through (8, -9) and has a slope of $-\frac{7}{2}$?

7. What is the **slope-intercept form** of the linear function that goes through (-10, -3) and has a slope of $-\frac{2}{5}$?

8. What is the **slope-intercept form** of the linear function that goes through (4, -3) and has a slope of $\frac{2}{3}$?

9. What is the **slope-intercept form** of the linear function that goes through (-5, -13) and has a slope of $-\frac{3}{2}$?

10. What is the **slope-intercept form** of the linear function that goes through (-4, 15) and has a slope of 2?