## FLUENCY PRACTICE: Finding Linear Functions from Point and Slope

Name:
Period: $\qquad$
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 $3 x-4 y=-16$ and goes through $(-5,2)$ ?
3. What is the point-slope form of the linear function that is parallel to $5 x+2 y=25$ 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 $y=-3 x+5$ 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)?
8. What is the slope-intercept form of the linear function that is parallel to $x-4 y=12$ and goes through $(-7,5)$ ?
9. What is the slope-intercept form of the linear function that is perpendicular to $3 x+2 y=10$ 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)?

