1. Write the equation of the line that is parallel to the graph of $y=\frac{1}{2} x+6$, and whose $y$-intercepts is $(0,-2)$
2. Write the equation of the line that is parallel to the graph of $y=-4 x-9$, and whose $y$-intercepts is $(0,3)$
3. Write the equation of the line that is parallel to the graph of $3 x-y=5$, and whose $y$-intercept is $(0,-7)$.

Write the equation in point-slope form of an equation of the line that passes through the given point and is parallel to the graph of each equation.
5. $(3,2), y=x+5$
6. $(-2,5), y=-4 x+2$
7. $(-3,4), 3 y=2 x-3$
8. $(-1,-4), 9 x+3 y=8$
9. Write the equation of the line that is perpendicular to the graph of $y=\frac{1}{2} x+6$, and whose $y$-intercept is $(0,-2)$.
10. Write the equation of the line that is perpendicular to the graph of $y=-4 x-9$, and whose $y$-intercept is $(0,3)$.
11. Write the equation of the line that is perpendicular to the graph of $3 x-y=5$, and whose $y$-intercept is -7 .
12. Write the equation of the line that is perpendicular to the graph of $2 x+y=5$, and whose $y$-intercept is 4 .

Write the equation in point-slope form of an equation of the line that passes through the given point and is perpendicular to the graph of each equation.
13. $(3,2), y=x+5$
14. $(-8,5), y=-4 x+2$
15. $(-6,4), 3 y=2 x-3$
16. $(-1,-4), 9 \mathrm{x}+3 \mathrm{y}=8$

