Name:
Date: $\qquad$ Hour:

## Lesson 7: Perpendicular Lines Worksheet

Explain questions with stars next to question numbers.
Write the slope-intercept form for an equation of the line that passes through the given point and is perpendicular to the graph of each equation.

1) $(4,2), y=\frac{1}{2} x+1$
2) $(2,-3), y=-\frac{2}{3} x+4$
3) $(6,-2), y=-3 x-6$
4) $(-8,-7), y=-x-8$
5) $(-9,-5), 3 x+y=-1$
6) $(-1,3), 2 x+4 y=12$
7) Find an equation that has a $y$-intercept of 5 that is perpendicular to the graph of the line $4 x+3 y=8$.
8) Find an equation that has a $y$-intercept of 7 that is perpendicular to the graph of the line $x=6$.

Write the slope-intercept form for an equation of the line that passes through the given point and is perpendicular to the graph of each equation.
9) $(-2,-2), y=-\frac{1}{3} x+9$
10) $(-4,-3), 4 x+y=7$
11) $(-3,-2), y=x+2$
12) $(-2,3), y=\frac{1}{4} x-4$
13) $(0,0), y=\frac{1}{2} x-1$
14) $(2,4), x-6 y=2$

수 15 ) $(1,1), 3 x+2 y=-7$
16) $(-3,5), 5 x-6 y=9$

