## WORKSHEET 4.3 - Parallel and Perpendicular Lines

Name: $\qquad$ Hour: $\qquad$ Date: $\qquad$
SECTION 1: Write the equation of the line that passes through the given point and is PARALLEL to the given line. Write answers in Slope-Intercept Form. (4.3.A)

1) PARALLEL TO: $y=2 x-9$

PASSES THROUGH: $(5,8)$
3) PARALLEL TO: $y=x+11$ PASSES THROUGH: $(-7,-4)$
2) PARALLEL TO: $y=\frac{1}{3} x+9$

PASSES THROUGH: $(9,2)$
4) PARALLEL TO: $y=-\frac{5}{2} x-10$

PASSES THROUGH: $(4,-6)$
5) PARALLEL TO: the line that passes through the points $(-4,-8)$ and $(10,-1)$
PASSES THROUGH: $(8,-7)$
6) PARALLEL TO: the line that passes through the points $(-2,4)$ and $(-5,-8)$
PASSES THROUGH: ( $1,-1$ )

SECTION 2: Write the equation of the line that passes through the point and is PERPENDICULAR to the given line. Write answers in Slope-Intercept Form. (4.3.A)
7) PERPENDICULAR TO: $y=-\frac{2}{3} x+4$ PASSES THROUGH: $(6,2)$
9) PERPENDICULAR TO: $y=x+1$

PASSES THROUGH: (9,-2)
11) PERPENDICULAR TO: the line that passes through the points $(0,1)$ and $(7,2)$ PASSES THROUGH: $(1,-5)$
8) PERPENDICULAR TO: $y=\frac{5}{4} x-2$

PASSES THROUGH: $(10,1)$
10) PERPENDICULAR TO: $y=3 x+8$ PASSES THROUGH: ( $-12,-9$ )
12) PERPENDICULAR TO: the line that passes through the points $(9,-7)$ and $(-9,-3)$ PASSES THROUGH: $(6,3)$

