**Write an equation for the line that is perpendicular to the given line and that passes through the given point.**

1. $\left(6, 4\right);y=3x-2$ 2. $\left(-5, 5\right);y= -5x+9$ 3. $\left(-1, -4\right);y=\frac{1}{6}x+1$

4. $\left(1, 1\right);y= -\frac{1}{4}x+7 $ 5. $\left(12, -6\right);y=4x+1$ 6. $\left(0, 3\right);y= -\frac{4}{3}x-7$



7. 8. 9.

**Write an equation for the line that is parallel to the given line and that passes through the given point.**

1. $\left(3, 4\right);y=2x-7$ 2. $\left(1, 3\right);y= -4x+5$ 3. $\left(4, -1\right);y=x-3$

4. $\left(4, 0\right);y=\frac{3}{2}x+9$ 5. $\left(-8, -4\right);y=-\frac{3}{4}x+5$ 6. $\left(9, -7\right);-7x-3y=3$



7. 8. 9.