

Name _____
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Date _____
Geometry

Linear Equations Through a Point

1. What is the equation of a line that passes through the point $(1, 5)$ and is parallel to the line whose equation is $y = 2x - 6$?

2. What is the equation of a line that passes through the point $(-3, -11)$ and is perpendicular to the line whose equation is $y = -\frac{1}{2}x - 4$?

3. What is the equation of a line that passes through the point $(-2, 5)$ and is parallel to the line whose equation is $y = -2x + 4$?

4. What is the equation of a line that passes through the point $(5, 4)$ and is perpendicular to the line whose equation is $y = -\frac{1}{3}x$?

5. What is the equation of a line that passes through the point $(6, -5)$ and is perpendicular to the line whose equation is $y + x = 5$?

6. Find an equation of the line passing through the point $(5, 4)$ and parallel to the line whose equation is $2x + y = 3$.

7. Find an equation of the line passing through the point $(6, 5)$ and perpendicular to the line whose equation is $2y + 3x = 6$.

8. Write an equation of the line that passes through the point $(6, -5)$ and is parallel to the line whose equation is $2x - 3y = 11$.