

Point Slope Worksheet

1. Find the equation of the line that passes through $(-4, 6)$ and is parallel to the line $3x + 4y = -2$
2. Find the equation of the line that passes through $(-2, 1)$ and is parallel to the line $3x - 2y = 6$
3. Find the equation of the line that passes through $(-5, 4)$ and is parallel to the line $3x + 4y = -10$
4. Find the equation of the line that passes through $(4, -3)$ and is perpendicular to the line $2x - 5y = -3$
5. Find the equation of the line that passes through $(5, 7)$ and is perpendicular to the line $-x - 2y = 5$
6. Find the equation of the line that passes through $(-3, 5)$ and is perpendicular to the line $-3x + 5y = -15$

1. Find the equation of the line that passes through $(-4, 6)$ and is parallel to the line $3x + 4y = -2$

$$y - 6 = \frac{-3}{4}(x + 4)$$

2. Find the equation of the line that passes through $(-2, 1)$ and is parallel to the line $3x - 2y = 6$

$$y - 1 = \frac{3}{2}(x + 2)$$

3. Find the equation of the line that passes through $(-5, 4)$ and is parallel to the line $3x + 4y = -10$

$$y - 4 = \frac{-3}{4}(x + 5)$$

4. Find the equation of the line that passes through $(4, -3)$ and is perpendicular to the line $2x - 5y = -3$

$$y + 3 = \frac{-5}{2}(x - 4)$$

5. Find the equation of the line that passes through $(5, 7)$ and is perpendicular to the line $-x - 2y = 5$

$$y - 7 = 2(x - 5)$$

6. Find the equation of the line that passes through $(-3, 5)$ and is perpendicular to the line $-3x + 5y = -15$

$$y - 5 = -\frac{5}{3}(x + 3)$$