Point-Slope Form of a Line

1. Find the equation of the line that contains the given point and with the given slope. Write the equation in slope-intercept form and graph the line
(similar to p.225 #14)

$$(1,2); slope = 3$$

2. Find the equation of the line that contains the given point and with the given slope. Write the equation in slope-intercept form and graph the line
(similar to p.225 #18)

$$(-5,1); slope = \frac{-3}{2}$$

3. Find the equation of the line that contains the given point and with the given slope. Write the equation in slope-intercept form and graph the line
(similar to p.225 #22)

$$(4,1); undefined \quad slope$$

4. Find the equation of the line that contains the given point and with the given slope. Write the equation in slope-intercept form and graph the line
(similar to p.225 #24)

$$(-2,-3); slope = 0$$

5. Find the equation of the line that contains the given point and satisfies the given information. Write the equation in slope-intercept form, if possible.
(similar to p.226 #30)

Horizontal line that contains $(-4, -5)$

6. Find the equation of the line that contains the given point and satisfies the given information. Write the equation in slope-intercept form, if possible.
(similar to p.226 #32)

Vertical line that contains $(5, -2)$

7. Find the equation of the line that contains the given points. Write the equation in slope-intercept form, if possible.
(similar to p.226 #40)

$(4, 10)$ and $(0, 2)$

8. Find the equation of the line that contains the given points. Write the equation in slope-intercept form, if possible.
(similar to p.226 #42)

$(-2, 8)$ and $(-4, 13)$

9. Find the equation of the line that contains the given points. Write the equation in slope-intercept form, if possible.
(similar to p.226 #46)

$(-1, 3)$ and $(5, 3)$

10. Find the equation of the line that contains the given points. Write the equation in slope-intercept form, if possible.
(similar to p.226 #48)

$(-2, 5)$ and $(-2, 7)$