**3.1 Linear Functions Practice**

Write the equation for the indicated line. Start with point-slope, but your final equation should be in slope-intercept.

1. Write the equation for a line with a slope of 3 and passes through the point ( -2, 6)
2. Write the equation for a line that passes through the points ( -4, -2) and ( -5, 3)

**Write an equation in slope intercept form that is parallel to the following equations and passes through the point given.**

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

**Write an equation in slope intercept form that is perpendicular to the following equations and passes through the point given.**

1. $y=2x-3$; (-2, 5) 6. $-y+3x=16$; (-9, 0)

Determine which lines, if any, are parallel or perpendicular.

1. A. $y=\frac{3}{5}x+1$ 8. A. $4x-3y=2$

B. $5y=3x-2$ B. $3x+4y=-1$

C. $10x-6y=-4$ C. $4y-3x=20$

**3.1 Linear Functions Practice**

Write the equation for the indicated line. Start with point-slope, but your final equation should be in slope-intercept.

1. Write the equation for a line with a slope of 3 and passes through the point ( -2, 6)
2. Write the equation for a line that passes through the points ( -4, -2) and ( -5, 3)

**Write an equation in slope intercept form that is parallel to the following equations and passes through the point given.**

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

**Write an equation in slope intercept form that is perpendicular to the following equations and passes through the point given.**

1. $y=2x-3$; (-2, 5) 6. $-y+3x=16$; (-9, 0)

Determine which lines, if any, are parallel or perpendicular.

1. A. $y=\frac{3}{5}x+1$ 8. A. $4x-3y=2$

B. $5y=3x-2$ B. $3x+4y=-1$

C. $10x-6y=-4$ C. $4y-3x=20$