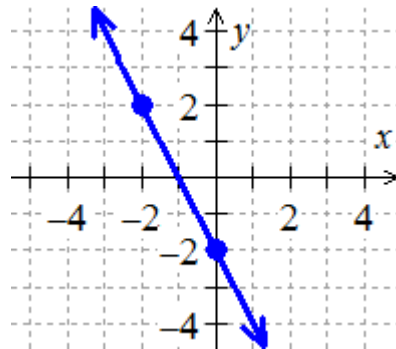
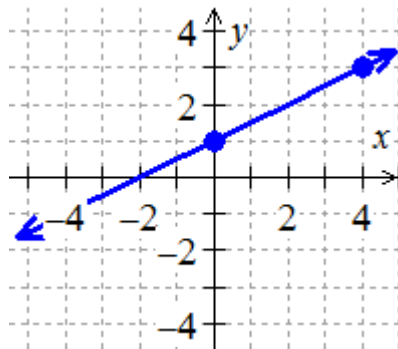
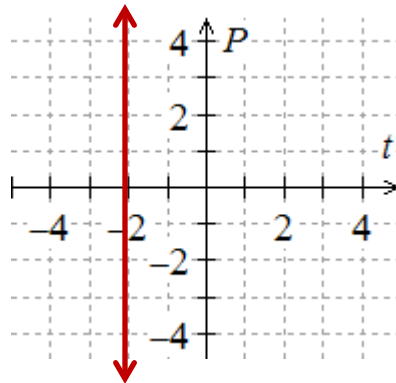
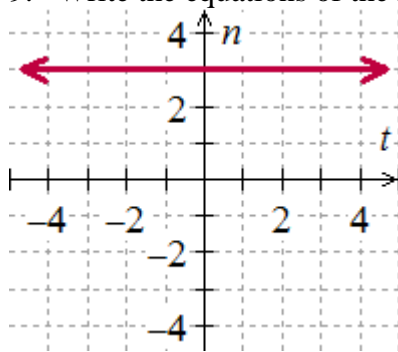


Review for Test 3

(I will post the answers on my website <http://spot.pcc.edu/~kkling/Mth60Links201601.html>)

For each of the graphing problems, choose an appropriate scale so that key points show up on your grid. Plot a MINIMUM of three points and extend your line across your entire grid, using a straight edge. Make sure to label and scale the axes!

1. Plot $3x - 4y = 12$.
2. Plot $2t + 3n = 6$.
3. Plot $y = -\frac{3}{5}x + 5$.
4. Plot $P = \frac{t}{12}$.
5. Plot $y = \frac{x}{30} - 4$.
6. Plot $35x + 14y = 140$.
7. Find the slope of the line passing through the points $(2, 5)$ and $(1, -4)$.
8. Find the slope of the line passing through the points $(4, -7)$ and $(-3, 2)$.
9. Write the equations of the following lines.



10. a. Figure 1 represents the cost to rent a car. What is the vertical-intercept of the line in Figure 1?
 b. What does the vertical-intercept mean in practical terms?
 c. What is the slope of the line in Figure 1? Don't forget the unit. Slopes in applied problems have units.
 d. What does the slope mean in practical terms?

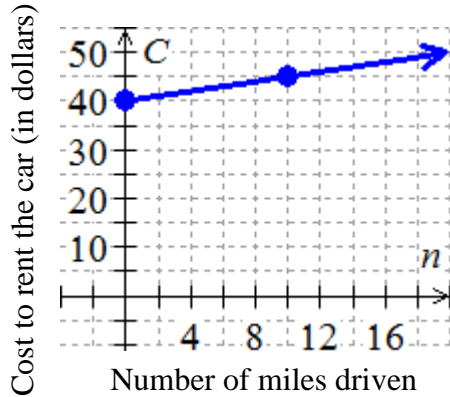


Figure 1: Dandy's Car Rental

11. Determine whether the lines through each pair of points are parallel, perpendicular, or neither.
 (0,1) and (3,7)
 (1,1) and (2,3)
12. What is the slope of a line that is perpendicular to the line with equation $5x - 3y = 7$?
13. What is the slope and y-intercept of the line $4x - 2y = 6$?
14. For the line with slope -3 and passing through the point $(-2, 3)$, write an equation of the line in point-slope form. Then write the equation of the line in slope-intercept form.
15. For the line passing through the points $(4, -3)$ and $(2, 5)$, write an equation of the line in point-slope form. Then write the equation of the line in slope-intercept form.