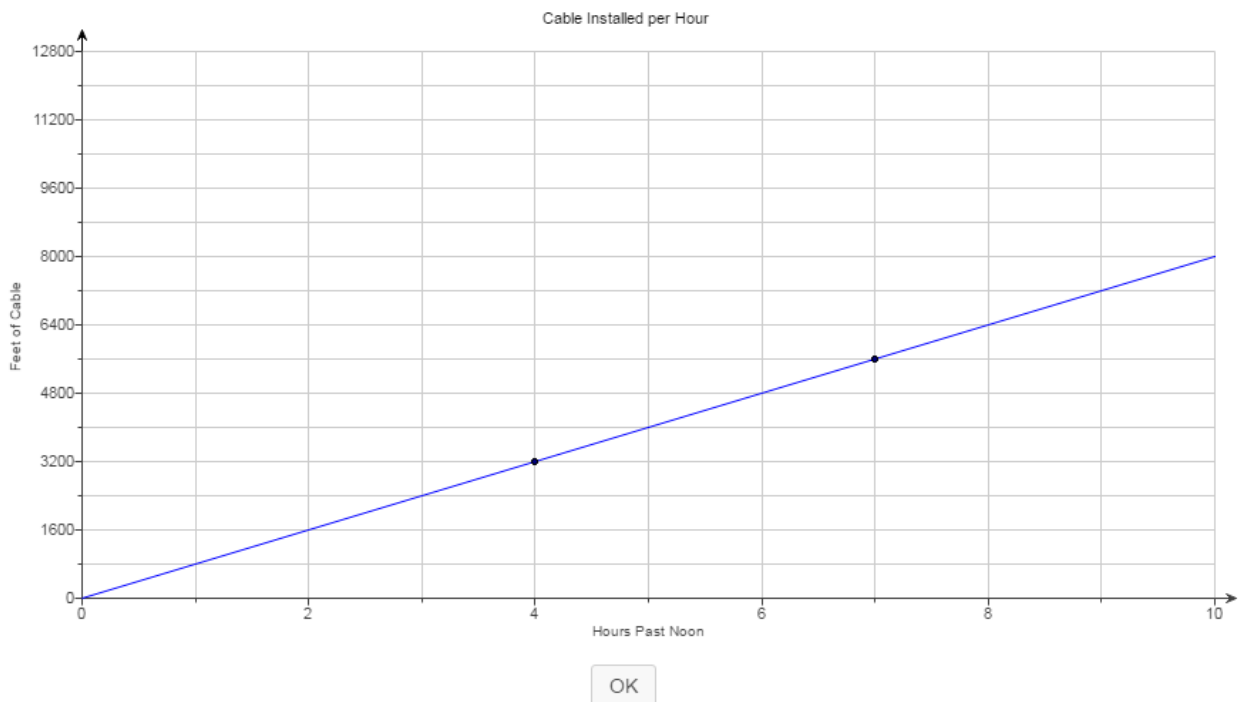1. **Graphing using intercepts. <u>Sec 3.3</u>**
    (a) Find x and y intercepts for $5x - 4y = 20$
    (b) Graph this line using intercepts.

    (c) Find x and y intercepts for $-x + 3y = 6$
    (d) Graph this line using intercepts.

    (e) Graph x = -1
    (f) Graph y = 4
2. **Rates. <u>Section 3.4</u>**
 (a) The electrical team installed cable at a rate of how many feet per hour?
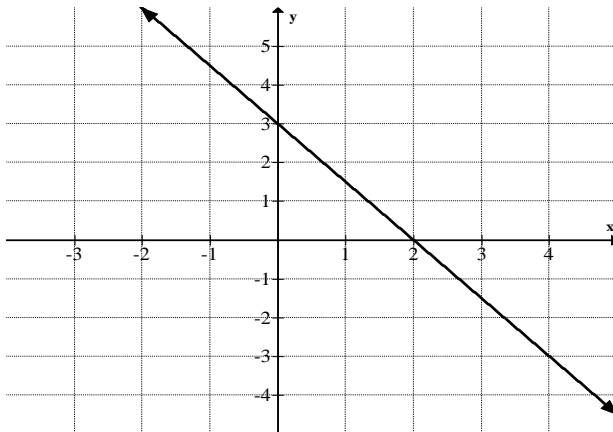

3. **Slope: <u>Sec 3.5</u>**
(a) Find the slope of the line containing the points whose coordinates are (3,0) and (6,9)
(b) Find the slope of the line containing the points whose coordinates are (−1,4) and (5,−8)
(c) Find the slope of the line containing the points whose coordinates are (1,8) and (6,9)
(d) Find the slope of the line containing the points whose coordinates are (2 , −5) and (−4 , 3).

(3e) Shown below is the graph of a line. Find the slope of this line.

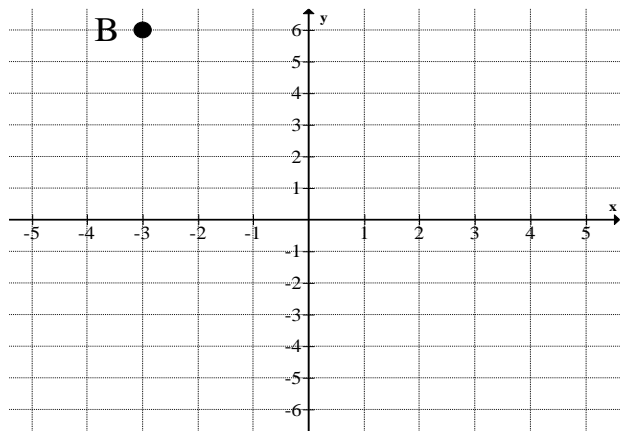**(3f)** Draw a line through point B with slope $-\dfrac{1}{4}$ through point
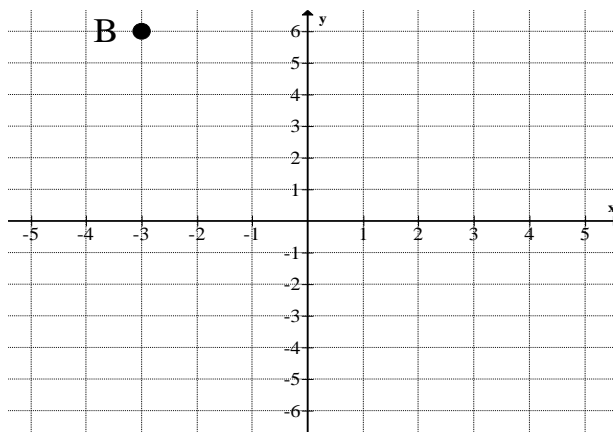
(3g) Draw a line through point B with slope 0

B ●

(graph with x and y axes ranging from -6 to 6)

4.   **Sec 3.6**
   (a)   Find the slope and y-intercept of the graph of $6x + 3y = 12$.
   (b)   Graph the line in (a) using the slope and y-intercept.
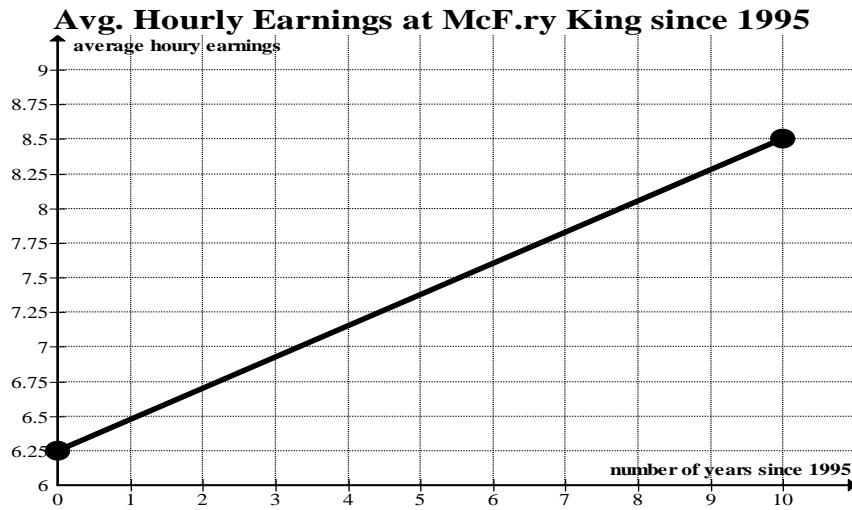
   (c)   Find the slope and y-intercept of the graph of $y = -\dfrac{2}{3}x - 2$
   (d)   Graph the line in (c) using the slope and y-intercept.

5.   **Sec 3.6, 3.7**
   (a)   Find the equation of the line that passes through the point whose coordinates are $(2, -1)$ and has slope 3.
   (b)   Find the equation of the lines that passes through the point whose coordinates are $(3, -2)$ and has slope of -2.
   (c)   Find the equation of the line that contains points whose coordinates are $(4, 1)$ and $(5, 3)$.
   (d)   Find the equation of the line that contains the points whose coordinates are $(6, 4)$ and $(4, 3)$.
   (e)   Find the equation of the line that has slope 4 and y-intercept $(0, -2)$
   (f)   Find the equation of the vertical line that passes through the point whose coordinates are $(-1, 2)$
              Determine whether each pair of equations represents parallel lines.
   (a) $y = -3x + 1 \ and \ 6x + 2y = 8$
   (b) $10y = 4 - 6x \ and \ 3x = 5y - 2$

6. Determine an equation for this graph.

THE SECTION NUMBERS ARE NOT IN ORDER PLEASE LOOK CAREFULLY

Avg. Hourly Earnings at McF.ry King since 1995

average houry earnings

number of years since 1995

7. Solving a system of two equation by Graphing Method: **Sec 7,1**

(a) $y = 3x - 3$
     $7x + y = 7$

(b) $y = -2x + 4$
     $5x + y = 10$

(c) $y = -4x + 8$
     $x - y = 7$

(d) $3x - 2y = -6$
     $6x - y = 6$

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8.   Solve the system of equations by Substitution method: **Sec 7.2**

(a) $x = y + 1$
     $x + 2y = 13$

(b) $y = 2x - 1$
     $3y - x = 12$

(c) $x = y - 6$
     $3x + 2y = 2$

(d) $x + y = -6$
     $5x + 4y = -29$

_____

9.   Solving a system of two equation by Elimination by Addition Method: **Sec 7.3**

(a) $x + y = 6$
     $\underline{-x + 4y = -1}$

(b) $9a + 2b = -37$
     $\underline{-9a + b = 49}$

(c) $-x - y = 10$
     $\underline{5x - y = -26}$

(d) $5x + 7y = 4$
     $\underline{-2x + 2y = 8}$

10.(e) Use any method to solve a system to find the value of the x-coordinate to the following system of equations.

$$x - y = -3$$
$$2x + y = 18$$

11. Word problems involving proportions: **Sec.6.7**

(a) A sample of 125 firecrackers contained 33 duds. How many duds would you expect in a sample of 2350 firecrackers?

(b) A student traveled 165 miles in 18 days. At the same ratio, how far would the student travel in 54 days?

9/12/16