

U6D3

Warm Up: Are the following equations in standard form? If not, make the corrections so it is in standard form.

a)  $3y - 2x + 4 = 0$

b)  $0 = x - 7$

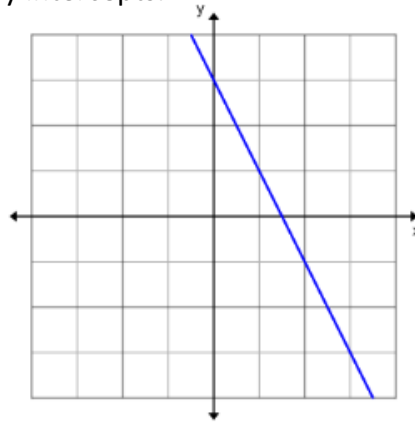
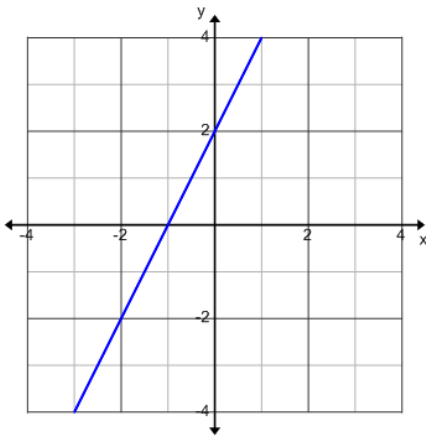
c)  $\frac{2}{3}x + \frac{1}{4}y = 7$

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**Graphing a Line Using Intercepts (6.3)**

**What are intercepts?**

**Example 1:** Use the graphs below to determine the x & y intercepts.

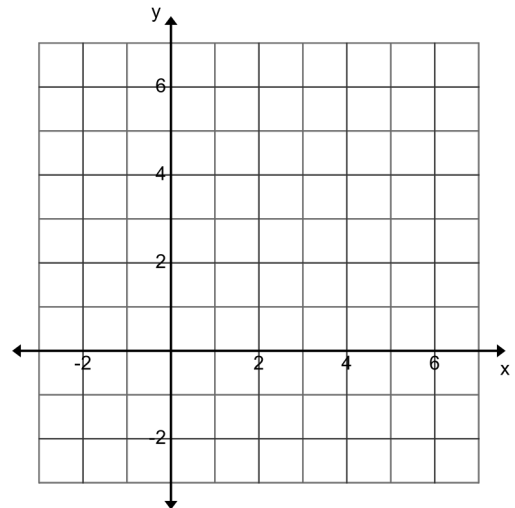


**In General :**

- the x-intercept is the value of x where the line crosses the \_\_\_\_\_ (i.e. )
- the y-intercept is the value of y where the line crosses the \_\_\_\_\_ (i.e. )

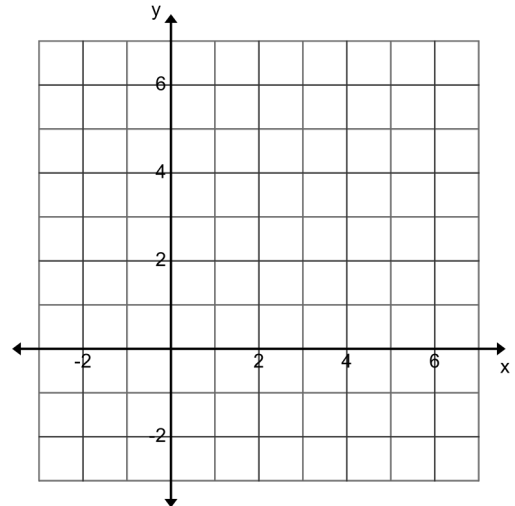
**Example 2:** For each line determine the intercepts and then graph the line.

a.  $2x - 4y = 8$



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b.  $3x + 2y - 12 = 0$

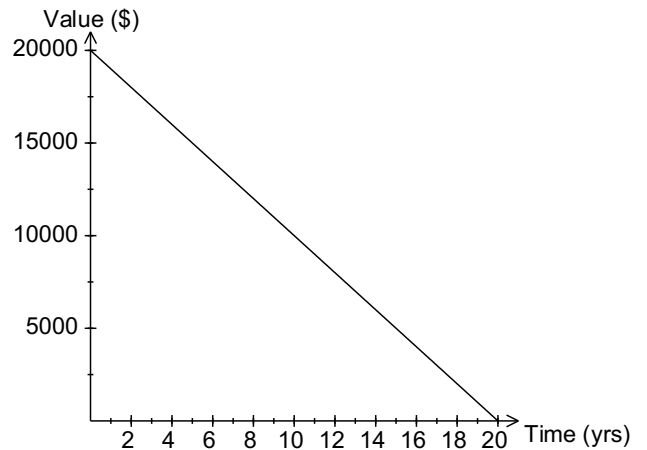


**Example 3:** The graph below illustrates the value of a car from the time it was bought.

a. Identify the V intercept and explain its meaning.

b. Identify the T intercept and explain its meaning.

c. What is the slope and its meaning?



**Example 4:**

Determine the slope of each line given the intercepts. Then, write the equation of the line.

a) x intercept is 3 and y intercept is 12.

b) x intercept is 5 and y intercept is -2

c) there is no x intercept and the y intercept is 6.

d) x intercept is -4 and there is no y intercept.

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#1,3acdef,4abc,5cd,6,9,11  
QUIZ: NEXT DAY