A **linear equation** is:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 ✓Draw an equation on the 🗶Draw an equation on the graph

 graph that **is** linear. that is **not** linear.

 

**Standard Form**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3 things to remember about Standard form:

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

An example of a linear equation is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ In **standard form** it looks like: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

An **intercept** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Remember:

* All linear equations have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

one x- and y- intercept. Unless it is the equation

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Linear equations may not always have

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| X | Y |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

 **y = x + 1**

 x-intercept:

 Ordered pair at the x-intercept:

 y-intercept:

 Ordered pair at the y-intercept:

How can we find the intercept(s) of **y = 13x – 6**?

Let’s think about **2x + 4y = 16**. Is this equation is standard form?

Standard form of this equation is:

I will find the intercept(s) of **2x + 4y = 16** by: Once you know the intercept(s)

 graph the equation using the two

graph of equation table of values plugging in 0 intercepts.



Remember: We can find intercepts 3 different ways. Some techniques are easier than others depending on the equation. The 3 ways are: