Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_\_\_\_

# **4.2b Notes – Graphing Linear Equations**

Look at the following equations. Circle any linear equations.

|  |  |  |
| --- | --- | --- |
| $$y=4x-3$$ | $$y=2+\frac{2}{3}x$$ | $$y=\frac{-3}{x}$$ |

Why is/are the one(s) you circled linear? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What will the shape of the graph be? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://mathbits.com/MathBits/StudentResources/GraphPaper/14by14%20axes.jpg

|  |  |
| --- | --- |
| x | y |
|  |  |
|  |  |
|  |  |
|  |  |

 | http://mathbits.com/MathBits/StudentResources/GraphPaper/14by14%20axes.jpg

|  |  |
| --- | --- |
| x | y |
|  |  |
|  |  |
|  |  |
|  |  |

 |

The equation of *any* linear equation can be written in the form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is another word for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is where the graph intersects the \_\_\_\_\_\_\_\_\_\_\_.

|  |
| --- |
| EX #1:  |

NOW, HERE’S THE BIG QUESTION:

**COULD YOU GRAPH IT WITHOUT THE TABLE?**

EX #2: Graph the equation$ y=5x-3$. EX #3: Graph the equation $y=-\frac{1}{3}x+2.$

 

EX #4: Graph the equation $y=x-3.$ EX #5: Graph the equation $y=-x+5.$

 