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

# 4.1b Notes – Linear Function or Not?

Comparing Graphs:



Look at equations and tables:

|  |  |  |
| --- | --- | --- |
| $$y=-\frac{2}{3}x+4$$ | $$y=\frac{1}{5}x-2$$ | $$y=x+1$$ |
|  |  |  |

How to tell if a function is linear:

|  |  |  |
| --- | --- | --- |
| **Table** | **Graph** | **Equation** |
|  |  |  |

Decide if each of the examples represents a linear function. Just say YES or NO and give a little reason why.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| https://www.learningpod.com/apiproxy/content/cea243f9-8449-49cd-8fec-9a807db6272e | $$2x-3y=17$$ |

|  |  |
| --- | --- |
| **X** | **Y** |
| **-2** | **10** |
| **0** | **7** |
| **2** | **4** |
| **6** | **-2** |
| **8** | **-5** |

 |