**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_**

**U8 CW #2b**  *Linear and Non-Linear Functions*

1. Sketch the general appearance of the graph of the equation .
   1. What do *m* and *b* represent?

b. What makes the graph linear?

**Directions:** Examine the equations and graphs to determine if they are linear or non-linear. Justify your thinking.



|  |  |
| --- | --- |
|  |  |
| Linear Non-linear  Justify: | Linear Non-linear  Justify: |
|  |  |
| Linear Non-linear  Justify: | Linear Non-linear  Justify: |
|  |  |
| Linear Non-linear  Justify: | Linear Non-linear  Justify: |
|  |  |
| Linear Non-linear  Justify: | Linear Non-linear  Justify: |

Based on the graph and the equation how can you tell if a line will be linear or non-linear?