Review Day 3 Homework

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

Linear, Exponential, or Neither

**Directions:** Indicate whether the following representations are **linear**, **exponential**, or **neither** on the line provided. Provide a **justification** for each answer.

1. 2, 6, 18, 54, 162… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Justification:

1. -8, -4, 0, 4, 8… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Justification:

1. 40, 20, 10, 5, $\frac{5}{2}$… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Justification:

4.

|  |  |
| --- | --- |
| 0 | 0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Justification: |
| 1 | 8 |
| 2 | 18 |
| 3 | 30 |
| 4 | 44 |
| 5 | 60 |

5.

|  |  |
| --- | --- |
| 0 | $\frac{4}{3}$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Justification: |
| 1 | 4 |
| 2 | 12 |
| 3 | 36 |
| 4 | 108 |
| 5 | 324 |

6.

|  |  |
| --- | --- |
| 0 | 6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Justification: |
| 1 | 9 |
| 2 | 14 |
| 3 | 21 |
| 4 | 30 |
| 5 | 41 |

7. A piece of paper is cut into two equal sections. Each new piece is cut into two additional pieces of equal size. This pattern continues until it is no longer possible to cut the paper any more.

****8-10. Choose 3 of the problems from # 1 – 7 and **create an equation** and **sketch a graph** for each of them.

 a.

****

 b.

****

 c.