**Linear or Not?**

**For each function representation below, state whether it is linear or not, and explain why.**

| **Representation Type** | **Representation Example** | **Constant Rate of Change?** | **Explain** |
| --- | --- | --- | --- |
| **Phrase** | Cost per minute |  |  |
| **Sentence** | I bake 12 cookies every 30 minutes. |  |  |
| **Sequence** | 2, 4, 8, 16, … |  |  |
| **Ordered Pairs** | (−6, 21), (3, 3), (−1, 11), (6, −3) |  |  |
| **Equation** |  |  |  |
| **Table** | |  |  | | --- | --- | | ***x*** | ***y*** | | −2 | 10 | | −1 | 4 | | 0 | -3 | | 1 | −6 | | 2 | −20 | |  |  |
| **Graph** | **M-8-7-R-LR-Key.tif** |  |  |
| **Situation** | A plane descends at *x* feet per second. What is the rate of change, and when will the plane reach the ground? |  |  |