Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_

**6.5 NOTES – Analyzing and Sketching Graphs**

*Objective: analyze the relationship between two quantities using graphs; sketch graphs to represent the relationship between two quantities. CC.SS.8.F.5 HW: CH 6 Practice Test*

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| **EXAMPLE 1:**    a.  b.  c. | **EXAMPLE 2:**    a.  b.  c. |
| **EXAMPLE 3:** | |

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| **EXAMPLE 4:** Matching Situations to Graphs – You are riding your bike. Match each situation with the appropriate graph. Explain your reasoning.   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  |     **4**  **2**  **3**  **1** |

**Warm Up:**

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| **SIMILAR TEST QUESTION #13**   1. The graph of a function is a line that passes through the points (2,0), (5,12) and (10,y). What is the value of y? |
| 1. The table shows the distance y, in miles, that a train is from San Francisco after x, hours. Tell whether each statement is **true** or **false** as presented in the table.  |  |  | | --- | --- | | Time (hours) | Distance (miles) | | 0 | 65 | | 1 | 65 | | 2 | 65 | | 3 | 65 |     A. An equation that relates *y* to *x* is y = 65. \_\_\_\_\_\_\_\_\_\_\_  B. The data indicates the train is traveling at 65 miles per hour. \_\_\_\_\_\_\_\_\_\_\_  C. The data represents a linear function. \_\_\_\_\_\_\_\_\_\_\_\_  D. The graph of the equation that relates y to x is a horizontal line. \_\_\_\_\_\_\_\_\_\_\_  E. The slope of the graph that relates y to x is undefined. \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. **SIMILAR TEST QUESTION #17**: A bus travels at a constant speed. The table shows the distance y, in miles that the bus travels after *x* minutes. How far does the bus travel after 9 minutes? Write answer as an improper fraction.  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Time (minutes) | x | 0 | 15 | 30 | 45 | | Distance (miles) | y | 0 | 12 | 24 | 36 | |