**Algebra 1– HW Name:**

**Unit 3- Linear Equations Period: 3 8 Date: 12/11/17**

1.  George and his brother John rode their bikes home from a park. The graph shows each rider’s distance from home over a period of time. What explains the difference in the slopes of these two graphs?
	1. John traveled a greater distance.
	2. George traveled a greater distance.
	3. George rode his bike slower.
	4. John rode his bike slower.

Explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Find the equation/ graph for each situation.

|  |  |
| --- | --- |
| 1. What is the equation of the line graphed here?

 | 1. What is the graph of the line associated with the equation 3***x*** – 5***y*** = 30 ?
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| 1. When a graph is created from the table shown, what is the graph of the line?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***x*** | -4 | -2 | 0 | 2 | 4 | 6 | 8 |
| ***y*** | -2 | 0 | 2 | 4 | 8 | 10 | 12 |

 | 1. What is the equation of the line that passes through the points (4,3) and

(9, 14)? |