**Position vs. Time Graphing Practice**

***Directions:*** Graph both sets of data below on the same graph, then answer the questions below. Label each graph with the name of the runner.

***C.J.’s Results:***

***100 m Outdoor Track***

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| --- | --- |
| **Time** | **Distance** |
| **s** | **m** |
| .2 | 0 |
| 2.5 | 10 |
| 3.5 | 20 |
| 4.5 | 30 |
| 5.5 | 40 |
| 6.5 | 50 |
| 7.6 | 60 |
| 8.5 | 70 |
| 9.5 | 80 |
| 10.6 | 90 |
| 11.5 | 100 |

***Donovan Bailey’s Results:***

***100 m Outdoor Track***

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| --- | --- |
| Time | **Distance** |
| **s** | **m** |
| .1 | 0 |
| 1.8 | 10 |
| 2.8 | 20 |
| 3.7 | 30 |
| 4.6 | 40 |
| 5.5 | 50 |
| 6.3 | 60 |
| 7.1 | 70 |
| 8.0 | 80 |
| 8.9 | 90 |
| 9.8 | 100 |

Position vs. Time for CJ and Donovan

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Use your graph to find information to answer the following questions:

1. Approximately how far had C.J. traveled after 1.0 second?
2. Approximately how far had Donovan Bailey traveled after 1.0 second?
3. Approximately how far had C.J. traveled after 5.0 seconds?
4. Approximately how far had Donovan Bailey traveled after 5.0 seconds?
5. Is one of the runners ahead of the other runner during the entire race? How do you know by reading the graph?
6. Predict and justify what Donovan Bailey’s distance would be at 12s.
7. Use the equation speed = distance/time to determine the average speed of both the boys.

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| ***C.J.’s Speed*** | ***Donovan Bailey’s Speed*** |
| d= | d= |
| t= | t= |
| Show your work here! | Show your work here! |