## Corvette Problem

Name: $\qquad$

In June 2013, a 1998 Corvette raced down the quarter mile drag strip at the Route 66 Raceway in Joliet, Illinois. This Corvette crossed the finish line at a speed of 116.14 mph , and the following data was provided on a time slip after the race:

| Distance | Time |
| :--- | :--- |
| 0 feet | 0.734 seconds |
| 60 feet | 2.063 seconds |
| 330 feet | 5.387 seconds |
| $\frac{1}{8}$ mile | 8.025 seconds |
| 1000 feet | 10.312 seconds |
| $\frac{1}{4}$ mile | 12.259 seconds |

For sports cars, a common measure of performance is the number of seconds it takes the car to accelerate from 0 to 60 mph . So the driver of this Corvette would like to know, according to this data, how many seconds it took him to reach a speed of 60 mph . Your task is to determine this time, and support your claim mathematically. Include an explanation in words and a graph, if necessary.

