

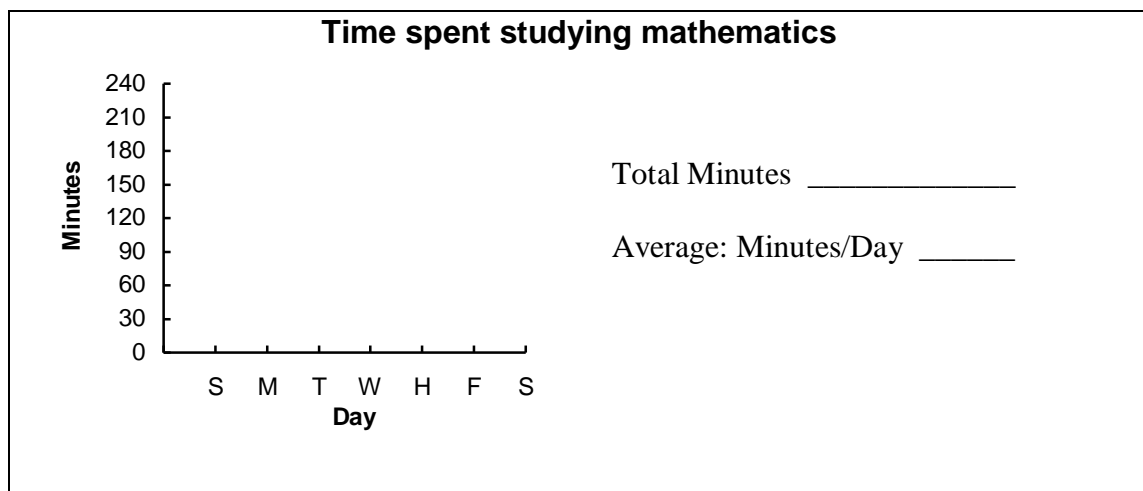
Math Problem: The table below shows the relationship between the stopping distance, d (in feet) for a car and its velocity (speed) v mph:

Input, v	0	1	2	3	4	5
Output, d	0	1.114	2.256	3.426	4.624	5.85

- (a) Is the function linear, exponential, or quadratic? Explain why.
- (b) Write an equation that will generate the output from the input. Explain what you did.
- (c) What is the stopping distance for a velocity of 55 mph?
- (d) What is the speed of the car if it takes 200 ft to stop? Explain what you did.

Journal Topic:

1. How well prepared did you feel for the midterm?
2. What would you do differently to prepare for the next midterm?
3. Were there any surprises on the midterm?
4. Did you feel that the midterm accurately reflected your understanding of the mathematical content of the course thus far? Explain.



Comments/Observations on the Course and your Progress (optional):