

Name \_\_\_\_\_

## Finding the Middle Ground: Exploring the Mean Value Theorem

### Short Answer Key

1. It states that there exists at least one point in an interval where the instantaneous rate of change of a function equals the average rate of change of the function over the interval.
2. It ensures that at some point during the journey, our instantaneous speed matches our average speed.
3. The function must be continuous on a closed interval and differentiable on an open interval.
4. It helps us analyze the average rate of change of a company's profit over a certain period.
5. A guidepost on a mathematical journey.

