**Absolute Maxima and Minima**

**What is meant by absolute maxima and minima?.**

Absolute maxima and minima, also known as global maxima and minima, are the highest and lowest values of a function over its entire domain, respectively. In mathematical terms:

1. Absolute Maximum: This is the largest value that a function reaches within its entire domain. It represents the highest point on the graph of the function.
2. Absolute Minimum: This is the smallest value that a function reaches within its entire domain. It represents the lowest point on the graph of the function.

To find absolute maxima and minima, you typically take the derivative of the function and set it equal to zero to locate critical points. Then, you evaluate the function at these critical points and at the endpoints of the domain to determine the absolute maximum and minimum values.

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