



The graph shows a function that is continuous and differentiable. The function starts at a low value, increases to a maximum, and then decreases. The maximum value is reached at a certain point in time, after which the function begins to decline. The overall shape of the graph is that of a smooth curve, possibly representing a physical process like the motion of an object or the growth of a population.

The function is defined on a closed interval, and the maximum value is attained at an interior point. This is a characteristic of a continuous function on a closed interval, where the extreme value theorem guarantees the existence of a maximum and a minimum.

The function is differentiable at the point where the maximum is attained.

The function is continuous on the entire interval.

The function is increasing on the interval before the maximum and decreasing on the interval after the maximum.

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