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## Contents

Statement of rolle's theorem in application of derivatives . . . . .	2
List of conditions to be fullfilled in rolle's theorem in application of derivatives .	2

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### Statement of rolle's theorem in application of derivatives

- A function continuous on closed interval  $[a,b]$
- Differentiable on the open interval  $(a,b)$
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$$f(a) = f(b)$$

- Ordinates of intervals to be equal
- Existence of at least a point such that it's slope is 0

### List of conditions to be fulfilled in rolle's theorem in application of derivatives

- Continuity at closed interval
- Differentiability at open interval
- Equality of ordinates