0.1 Rolle's theorem

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Take a real function f(x) on closed interval [a,b], differentiable on (a,b,), and f(a)=f(b).

Rolle's theorem states that:

$$\exists c \in (a, b)(f'(c) = 0)$$

Generalised Rolle's theorem states that:

Generalised Rolle's theorem implies Rolle's theorem, so we only need to prove the generalised theorem.