Problem 25. Suppose f is twice differentiable on [a,b], f(a) < 0, f(b) > 0, $f'(x) \ge \delta > 0$, and $0 \le f''(x) \le M$ for all $x \in [a,b]$. Let ξ be the unique point in (a,b) at which $f(\xi) = 0$.

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