Exercise & Problem ?

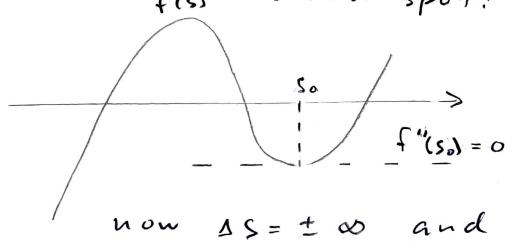
The difference between Newton's method and parabola filling!

Newton's method requires knowledge of the first and second derivatives of fiss.

Parabola filling forces is to go through three points of function f(s), no derivatives are required.

If no closed form of f(s) is available, it is difficult to obtain f'(s) and f'(s). Pavabola filling can still be used.

Newtonis method may hit fiss a flat spot!



Newton Fails,

Parabolic forting only fails if the whole function is linear i.e. $f(s) = as^2 + bs + c$ and a = o-> f(s) = bs + c.