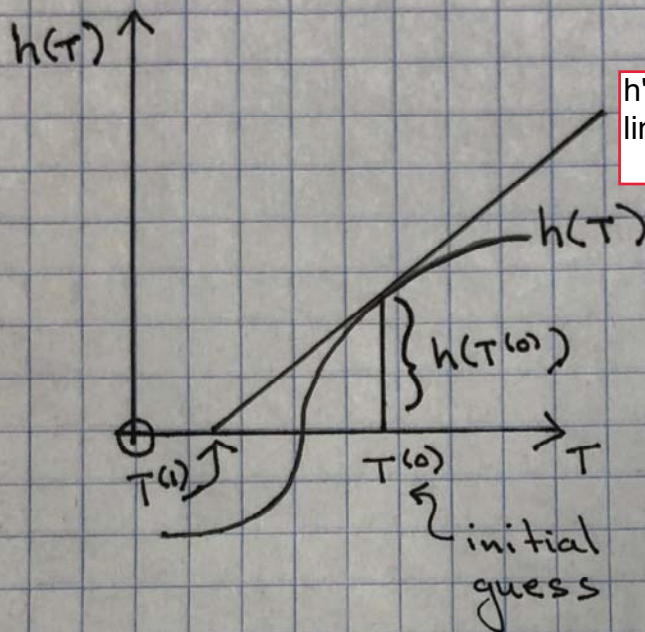


Newton - Raphson Technique

Find the o's of a function, that is,

find T^* such that $h(T^*) = 0$ where

$h(x)$ is a real-valued function.



$h'(T_0)$ is the slope of the line tangent to $h(T_0)$

$$h'(T^{(0)}) = \frac{\Delta h(T^{(0)})}{\Delta T} = \left[\frac{\Delta y}{\Delta x} \right] = \frac{h(T^{(0)})}{(T^{(0)} - T^{(1)})}$$

Solve for $T^{(1)}$ $T^{(1)} = T^{(0)} - \frac{h(T^{(0)})}{h'(T^{(0)})}$

In general, $T^{(k+1)} = T^{(k)} - \frac{h(T^{(k)})}{h'(T^{(k)})}$

Proceed iteratively until $|T^{(k+1)} - T^{(k)}|$ is small.