$(f(x))^2 = f(x)^2$

$\frac{df(x)^2}{d^2x} = f'(x)^2$

~~When f(x) is squared~~

1. Local minimizer of $f(x)$ is where

$f'(x) = 0 \quad \wedge \quad f''(x) \geq 0$

Squaring the function has no effect to 0 results & orientation of positive results

$f'(x) = 0 = f''(x)^2 \qquad f''(x) > 0 \;\&\; f''(x)^2 > 0$

3.1.5 $T = cR^a \qquad \frac{I}{c} = R^a \qquad \log\left(\frac{I}{c}\right) = a\log(R)$