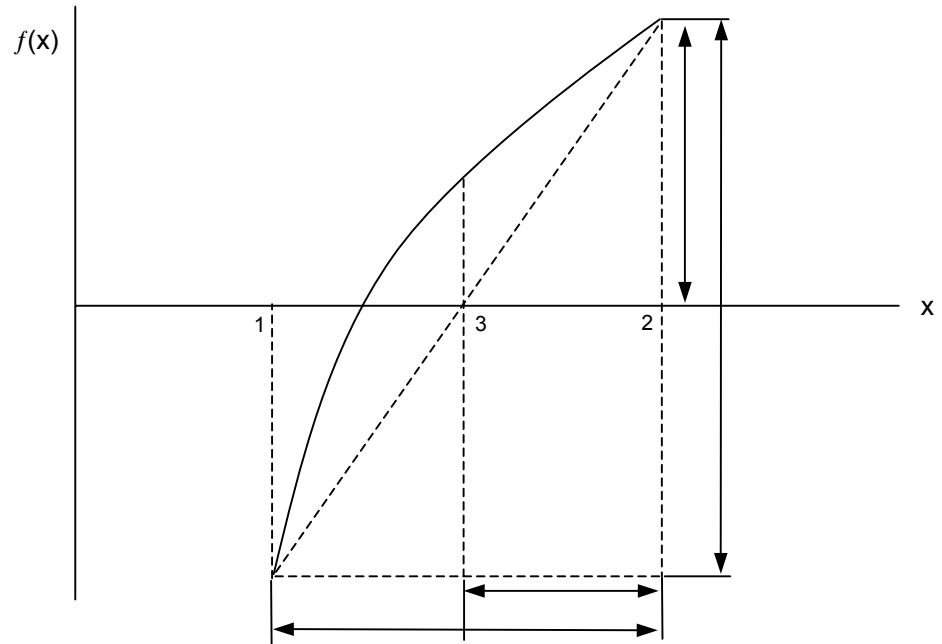


Linear Interpolation Method for Root Finding



$$\frac{x_2 - x_3}{x_2 - x_1} = \frac{f(x_2)}{f(x_2) - f(x_1)}$$

$$x_3 = x_2 - \frac{f(x_2)}{f(x_2) - f(x_1)}(x_2 - x_1)$$

If $f(x_3)$ is of opposite sign to $f(x_1)$

$$x_2 = x_3$$

else

$$x_1 = x_3$$