GP

Newton Baphson Melhod:

Egn of Tangent,

This is satisfied at (15,0) so,

$$\Rightarrow \mathcal{N}_1 - \mathcal{N}_0 = \frac{-\sqrt{(\mathcal{N}_0)}}{\sqrt{(\mathcal{N}_0)}}$$

Thus the formula is,

$$x_{n+1} = \alpha_{n-1} - \frac{f(x_n)}{f'(x_n)}, f'(x_n) \neq 0$$

