

$$f(x) = x^3 + x + 1$$

$$f'(x) = 3x^2 + 1$$

$$t_k(x) = f(x_k) + (x - x_k)f'(x_k)$$

$$x_{k+1} = x_k - f(x_k)/f'(x_k)$$

$$k=0$$

$$x_0 = -0.7$$

