Method Ollo 21 Newton Raphson Po (xo. f(xo) x 71 Tangent slope son fony. $Y-Y_1 = \frac{dy}{dx}(x-x_1)$ (T) $0-f(x_0) = f(x_0).(x-x_0)$ dy from (x,y) 0-f(No)=f(No)(xy-ny $\left(\mathcal{U} = \mathcal{U}_{0}\right) = \frac{1}{f'(\mathcal{U})}$ Newton-Raphson $\mathcal{L}_{m+1} = \mathcal{L}_m - \frac{f(x_n)}{f'(x_n)_i}$ formular. Ove to Dre QO find the N-R method, $\chi^{3} - 3x - 5 = 0$. $f(x) = x^{3} - 3x - 5$ = 0 - 0 - 5 = -5 $-1(1) = 1^{3} - 3 \cdot 1 - 5 = -7$ -1(2) = 8 - 6 - 5 = -3 -3(3) = 27 - 9 - 5 = 16 $f(x) = x^3 - 3x - 5$ (1) X=0 $\alpha = 1$ \ \ \ \ \ \ \ \ = 2 \