

## Classical Mechanics and Special Relativity Course # PHY 204 Fall 2020

Prepared by Abu Mohammad Khan

## Ait Ken Acceleration



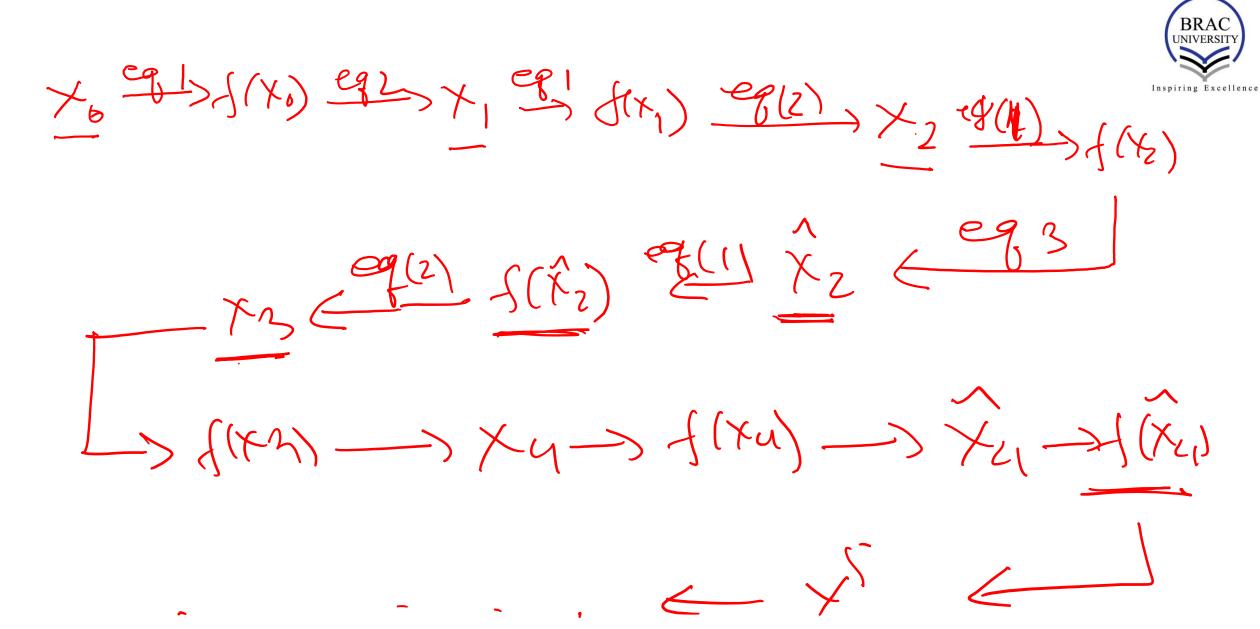
$$f(x_{k}) = x_{k}^{2} - 2x_{k} e^{-x_{k}} + e^{-2x_{k}}$$

$$x_{k+1} = x_{k} - \frac{x_{k}^{2} - 2x_{k}e^{-x_{k}} + e^{-2x_{k}}}{2x_{k} - 2e^{x_{k}} + 2x_{k}e^{x_{k}} - 2e^{2x_{k}}}$$

$$x_{k+2} = x_{k} - \frac{(x_{k+1} - x_{k})^{2}}{2x_{k+2} - 2x_{k+1} + x_{k}}$$

$$x_{k+2} = x_{k} - \frac{(x_{k+1} - x_{k})^{2}}{x_{k+2} - 2x_{k+1} + x_{k}}$$







BRAC UNIVERSITY f(KK) 1 XXXX (105) 0.3995-76 Leg(2) 0.768941 NO 0.664590 0\_022532 · les her (0 12 3,2×104 0,578651 8 xi05 f(xu) = 2x155 0,570011 1=2.8 XTO X 1XIS 567154