Newton's Method and solving Kenler's Fountion

Monday, 26

$$f(x) = 0$$

$$x = \alpha + Ax +$$

$$f(\alpha) + \Delta x f'(\alpha) \neq 0$$

$$\Delta x \neq - f(\alpha)$$

$$x \equiv \alpha - f(\alpha)$$

$$f(E) = 0 \qquad 0 = E - esinE - M$$

$$f(E)$$

$$F'(E)$$

$$M = n.t \qquad n = \frac{2\pi}{T} \qquad T = a^{3/2}$$

$$years \qquad AU$$

$$X = a \cdot cos(E) - ae$$

$$y = b \cdot sin(E)$$

$$y = a\sqrt{1 - e^{2}} sin(E)$$

$$e = 0.5 \qquad a = 1$$

$$f'(E) = ?$$

$$Initial \qquad E_0 = M$$