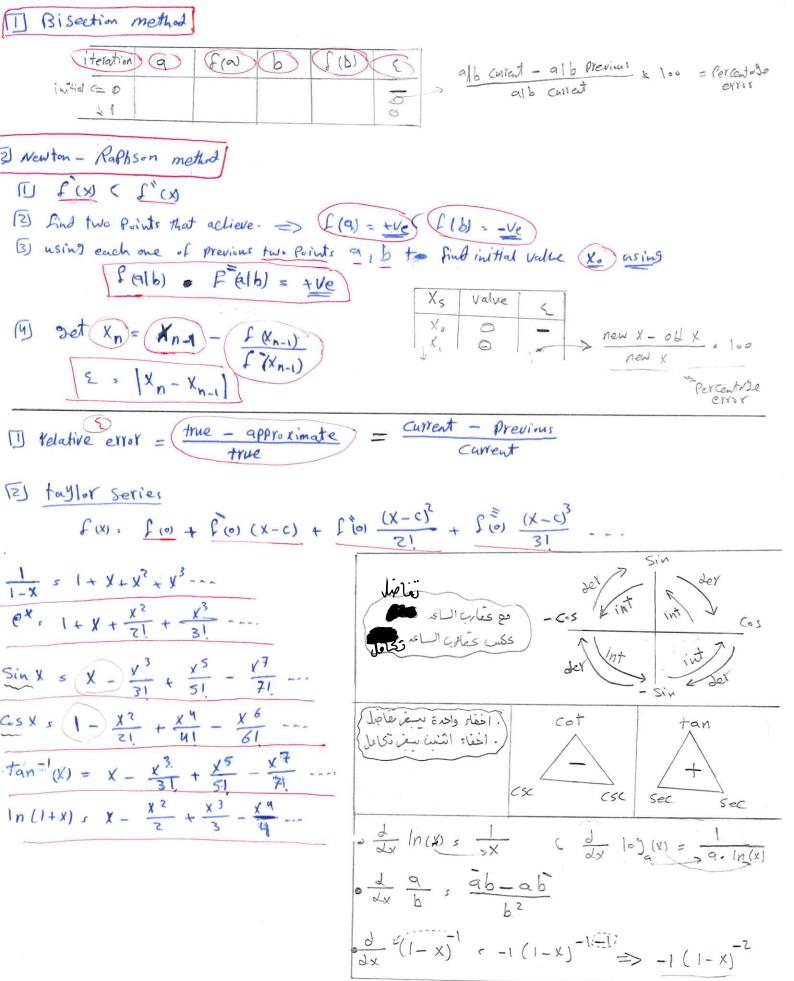
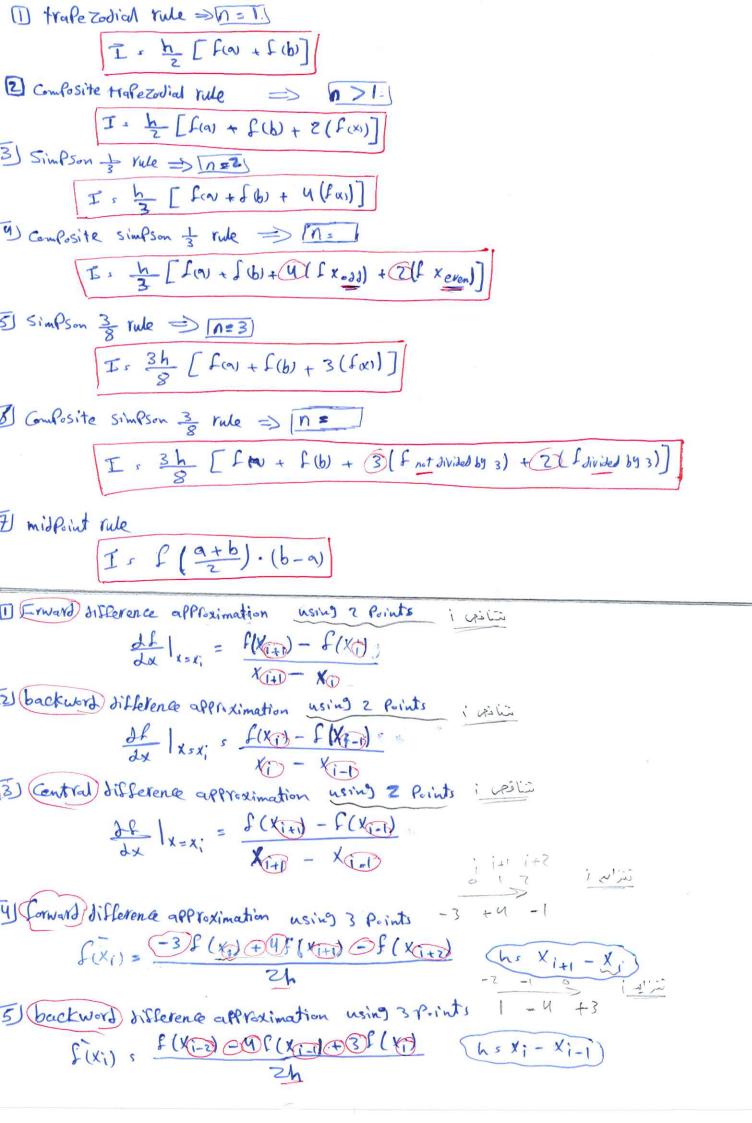
$m = \frac{y - y_0}{x - x_0} \implies y - y_0 = m(x - x_0) \implies y = y_0 + m(x - x_0) \leftarrow \frac{y_0 - y_0}{x_0 - x_0}$ $\mathbb{E} \cdot \left[\frac{y_{n-y_{o}}}{x_{n-x_{o}}} \cdot x + y_{o} - \frac{x_{o}y_{n} - x_{o}y_{o}}{x_{n-x_{o}}} \right] dx \Rightarrow \mathbb{E} \cdot \left[\frac{y_{n-y_{o}}}{x_{n-x_{o}}} \cdot x + \frac{y_{o}(x_{n-x_{o}}) - (x_{o}y_{n} - x_{o}y_{o})}{x_{n-x_{o}}} \right] dx$ $I = \int \left[\frac{y_n - y_o}{x_n - x_o} \cdot x + \frac{x_n y_o - x_o y_o - x_o y_n + x_o y_o}{x_n - x_o} \right] dx \implies I = \int \left[\frac{y_n - y_o}{x_n - x_o} \cdot x + \frac{x_n y_o - x_o y_n + x_o y_o}{x_n - x_o} \right] dx$ $T = \frac{y_n - y_o}{x_n - x_o} \cdot \frac{x^2}{x_o} \Big|_{y_o}^{x_n} + \frac{x_n y_o - x_o y_n}{x_n - x_o} \cdot x \Big|_{x_o}^{y_n}$ by substitude $x \Rightarrow x_n \in x \Rightarrow x_o$ I= (\frac{y_n-y_o}{x_n-x_o} \cdot \frac{y_n^2}{2} - \frac{y_n-y_o}{x_n-x_o} \cdot \frac{x_o^2}{2} + \frac{x_ny_o-x_oy_n}{x_n-x_o} \cdot \frac{x_n}{x_n-x_o} \cdot \frac{x_n}{ I = (1 - Xn-Yo (x2 - X2)) + (Xnyo - Xoyn . (xn-Xo)) Is = 1 (xn-xo) (xn+xo) + (xnyo-xoyn) => I = 1 (yn-yo)(xn+xo) + (xnyo-xoyn) I - Xnyn - xnyo + Xoyn - Xoyo + 2xnyo - 2xoyn = I s Xnyn - xoyo + xnyo - xoyn + xke xnc xo I, $\frac{x_n(y_n+y_0)-x_0(y_0+y_n)}{2} = \sum I = \frac{(y_n+y_0)(x_n-x_0)}{2} = \sum I = (x_n-x_0) \cdot \frac{(y_n+y_0)}{2}$ I. h. yn + yo general form Is sky (yn + yn-1) Xn-1 where ho (x - xn-1)





$$|n(1+x)| = |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^2}{2!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |n(1+o)| + |f(1+x)|^{-1} \cdot (x-o)| + |f(-1)(1+x)|^{-2} \cdot \frac{(x-o)^2}{2!} + |f(2)(1+x)|^{-3} \frac{(x-o)^3}{3!}$$

$$= |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^2}{2!} + |f(0)| \frac{(x-c)^3}{3!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |f(0)| + |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^2}{2!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |f(0)| + |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^2}{2!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |f(0)| + |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^2}{2!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |f(0)| + |f(0)| + |f(0)| + |f(0)| + |f(0)| \frac{(x-c)^3}{2!} + |f(0)| \frac{(x-c)^3}{3!}$$

$$= |f(0)| + |f(0)|$$

$$e^{x} = f(0) + f(0)(x-c) + f(0) \frac{(x-c)^{2}}{2!} + f(0) \frac{(x-c)^{3}}{3!}$$

$$= e^{0} + \left[e^{0} - (x-0)\right] + \left[e^{0} \cdot \frac{(x-0)^{2}}{2!}\right] + \left[e^{0} \cdot \frac{(x-0)^{3}}{3!}\right]$$

$$= 1 + x + \frac{x^{2}}{2!} + \frac{x^{3}}{3!} + \cdots$$

Sin
$$X = \Gamma(0) + \Gamma(0)(X-c) + \Gamma(0) \frac{(X-c)^2}{2!} + \Gamma(0) \frac{(X-c)^3}{3!}$$

$$= \sin(0) + \left[\cos(0) \cdot (X-0)\right] + \left[-\sin(0) \cdot \frac{(X-0)^2}{2!}\right] + \left[-\cos(0) \cdot \frac{(X-0)^3}{3!}\right]$$

$$= \left[X - \frac{X^3}{3!} + \frac{X^5}{5!} - \frac{X^7}{7!}\right]$$