Emon Sen Dibos 2320/256 Section-26

4 10 12 10 10 20 May 120 10 (10 2 19 g)

$$f(0) = 0.4826 = +ve$$
  
 $f(3) = -1.8484 = -ve$ 

$$C = \frac{2+3}{2} = 2.5$$

$$f(c) = -0.6807 = -ve_{ennon=1}$$
  
So we set  $b := c = 9.5$ 

$$f(2.5) = -0.6807$$

$$f(2.5) = -0.6807$$

$$f(2) = 0.4826$$

$$(-2.25)$$

$$C = 2.26$$
  
 $f(c) = -0.0727 = -ve$   
So, we set  $b := c = 2.26$ 

$$C = \frac{2+2\cdot 25}{2} = 2\cdot 125$$

$$f(c) = 0\cdot 2159 = + ve$$

$$f(2.125) = 2.000 0.2154$$

$$f(2.25) = -0.0727$$

$$C = \frac{2.125 + 2.25}{2} = 2.1875$$

$$f(0) = 0.0735$$
So, we set  $a! = C = 2.1875$ 

$$f(2.1875) = 20.0735$$

$$f(2.25) = -0.0727$$

$$C = \frac{2.25 + 2.1875}{2}$$

$$= 0.0008$$

$$f(0) = 0.0008$$

$$f(0) = 0.0008$$

$$f(2.26) = -0.0727$$

$$C = \frac{a+b}{2} = 2.34375$$

$$f(0) = -0.035836$$

$$f(0) = 0.03125$$

$$f(u) = e^{\sin(u)} - \pi$$

$$f'(u) = e^{\sin(u)} \cos(w) - 1$$
Let, initial guess  $\pi_{6} = 3$ , etherory
$$g_{0}, u_{1} = \pi_{0} = \frac{f'(\pi_{0})}{f'(\pi_{0})}$$

$$= \frac{7}{7} + \frac{-1.84844}{-2.14094}$$

$$= 2.13626 - \frac{6.19019}{f(\pi_{0})}$$

$$= 2.13626 - \frac{6.19019}{-24692}$$

$$= 2.22092 - 1.24692$$

$$= 2.22092 - 1.2472$$

$$= 2.22092 - \frac{-0.00423}{-2.34172}$$

$$= 2.21911 - \frac{f(\pi_{0})}{f'(\pi_{0})}$$

$$= 2.21911 - \frac{-1.56141 \times 10^{-6}}{-2.33399}$$

$$= 2.21911 - \frac{f(\pi_{0})}{-2.33399}$$

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$$= 2.21911 - \frac{f(\pi_{0})}{-2.2191} - \frac{f(\pi_{0})}{-2.33399}$$

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$$= 2.21011 - \frac{-2.14051 \times 10^{13}}{-2.33009}$$

$$= 2.21911$$

$$f'(w) = \frac{4f(u+h) - f(u+2h) - 3f(u)}{2h} + o(hy)$$

$$= \frac{4f(4) - f(5) - 3f(3)}{2}$$

$$f'(n) = \frac{3f(n) - 4f(n-h) + f(n-2h)}{2h} + o(h)$$

$$= \frac{3f(3) - 4f(2) + f(1)}{2}$$

$$= -0.81$$

fon Central Denivative:
$$f'(u) = \frac{f(u+h) - f(u-h)}{2h} + o(h^{\nu})$$

$$= \frac{f(u) - f(z)}{2}$$

$$= -0.275$$

Anea = 
$$\frac{h}{2} \left[ f(x_0) + \sum_{i=1}^{M} f(u_i) + f(u_i) \right]$$