10.
$$\chi \cos \chi - 2\chi^2 + 3\chi - [= 0, [0.2, 0.5] \notin [1.2,1.3]$$

.2 $\cos(2) - 2\cos^2 + 3\cos^2 - [= -.284]$
.5 $\cos(3) - 2\cos^2 + 3\cos^2 - [= .0066]$

.0066 $\chi = -.284$
 $\chi = 0 \quad \text{M} = .24753523$

1.2 $\cos(1.2) - 2\cos^2 + 3\cos^2 - [= .15485]$
1.3 $\cos(1.3) - 2\cos^2 + 3\cos^2 - [= .1323]$
 $\chi = 0 \quad \text{M} = 1.256623$

1b. $\cos(1.3) - \cos(1.2) + 3\cos^2 - [= .1323]$
 $\chi = 0 \quad \text{M} = 1.256623$

1b. $\cos(1.3) - \cos(1.2) - [= .1323]$
 $\cos(1.2) - [= .1323]$

2.6137 > 0>e

16.
$$2 \times \cos(2 \times x) - (X - 2)^2 = 0$$
, $[2,3] \Leftrightarrow [3,4]$

$$2(2)\cos(22(2)) - (2-2)^2 = -2.615$$

$$2(3)\cos(22(3)) - (3-2)^2 = 4.761$$

$$-2.613 \angle 0 \angle 4.761$$

$$Y = 0 \quad (2) \quad X = 2.370689$$

$$2(4)\cos(2(4)) - (4-2)^2 = -5.164$$

$$-5.164 \angle 0 \angle 4.761$$

$$Y = 0 \quad (2) \quad X = 3.7221/28$$

18, X-Clacx> = 0, L4,57

4- (21/47)4 = .30664 5- CP1 (57)5 = -5.799

3a.
$$f(X) = 1 - e^{X} + Ce^{-1}) \sin \alpha(\pi/2) x$$
, $[0,1]$

$$f'(x) = \frac{\int (e^{-1}) \cos (\frac{x}{2})}{2} - e^{X}$$

$$f'(0) = 1.6491$$

$$-2.718 \le 0 \le 1.69411$$

$$f'(1) = -2.718$$

$$Y = 0 \quad 0 \quad X = .85345504$$

3b. f(x) = Cx-1 ten x + x sin x x, [0,1]

$$f^{\circ}(X) = \frac{-X-2}{X} - 2n(X)$$
 $f^{\circ}(2) = -0.69$

3C. (CX) = XSINXX - (X-Z) 11 K, [1,2]

38.
$$f(x) = (x-2) \sin x \ln(x+2), C-1,3]$$

 $f'(x) = x \sin(x) - 2 \sin(x) + x \sin(x) \cos(x+2) + x^{2} \cos(x) \ln (x+2) - 4 \cos(x) \ln (x+2)$