PRECISION LOSS OF ALL NEAR X = 0,  $\sqrt{2}$ ,  $\frac{5\pi}{2}$   $f(0.200) = e^{-(0.2)} + \sin(0.2) - 1$ = 0.819 + 0.199 -1.000 = 0.018 EXACT SOLUTION IS 0.017 SO THIS DIGIT IS INCOMECA AN EQUEVALENT FORM OF S(x) = ex+sinx-1 IS ITS TAYLOR EXPANSION ...  $f(0.200) \approx \frac{(0.200)^{2}}{2} = \frac{(0.200)^{3}}{2} + \frac{(0.200)^{3}}{24} + \cdots$ ... + (0.200) 720 = 0.020 - 0.003 + 0.000 = 0.017 THIS DIGIT IS NOW CORRECT