Syed Ali Hassan BSCS 118/3-16/ MOSS Given Y's first with you I find y for X=0.1 in four steps Euler's Method So let h= 01 = 0.025 given del By petting nio, 1,2,3, we obtain

It tooss (10) In = 1.025 Again 72 = 11 + h.f. (N. y.) (where M = No th = 0+ 0.025 => M = 0 025) = 10400 Y== 1.0488 73 = 72 tht (1/2, 42) 10400 +0-025 (10400 -00 (1-0499 + 0.02) = 1-07/52

73=1.0715) 74= 73+ hf(x3,43) where xo3ho) = 0+3 x0-025 = 0-075 = 1.07152 +0-025 (1.07152 -0.075) (1.07.152 +0-073) 74 = 1.09324 at (xy = No +4h = ot 4x0-015 Justage hence, 1410.1) = 1.0932