

d) Rn & for 1 dn & 0.001 - 1m 1 1 = - 1 + 1 & 0.001 1 <0.0C1 h > 1000 £ (2n+1) Sn + for for) dax s & sn + for for) da Sn+1 (m ≤ Rn ≤ (m) dne In (m) da < 0.00001 [1. (pat1)] 0 < 0.0001 $(2m+1)^{-5}$ $| ^{00} < 0.00001$ $0 + (2n+1)^{-5} < 0.00001$ > S3 = (2(1)+1) + (2(2)+1) 16 (2n+1) 5 > 100000 + (2(3)+1)-6 (2411)5 > 10000 = 10.00144 2071 > 6.3096 Dn > 5.3096 n > 2.6548 n = 3

11.4: comparison Curitten) [converges] S n [diverges] 6. use : c) n241