semples multiple integel: Is I(x,1) dA as continuous knotion startin supplier restange R = [a, b]x[c,d] petition Pot R into subredendes R.,..., Ru. a. x . < x . . . < x . . b C- 4061, C... 61m= 9 chasse arbitrary point (x; ", y; ") in R; Icl each i S- E(X: 1:1) 11 EIEHZ . solection but pathition P= EK: 11 EIEHZ consider SCX, 1) above the region R. DA; is the are of R; = 1 dume of it column turned with f(x; 1, 1) is f(x; 1, 1) DA; Sum at James: ZJCx, *, 1, *) DA; noim 171: max diagral longth among Ri definition at dauble unlegal at tale R: IIRf(x,4)dA: lim \(\frac{1}{2}\) \(\chi,\chi,\chi,\chi)\) \(\Delta \). Drouged this limit exists Has to compute this date integral cithalt adually catalating the limit directly? 40 (x6 (1,x) [] - x6 (16 (1,x) +] (] + A6 (1,x) + A ([1 + x) + A (itested sindle raidble integrations