

Total:

51/65

is continuous on [a,b] it must be bounded.

f(d) be sup(f) [a,b] and f(e) be in T(s). (d)(b-q) and f(e)(b-a) for Ca, 6) which ecoresyond ax and min value of the riemann sun. is in between these values, be a a value fe) in between fld O, then $g(x) = S_{\alpha} f$ area commet concert out so 0=5x 50) both integrals must be ensure one a wind ee the carre to Joh(x) must have h(x)=0 positive over under curve negative over, meaning hato VT, Jc E(ab) s.t. h(c)=U

6a. Let (PN) be a sequence of tagged partitions of Ea, bJ. Let (PND) be a subsequence of tagged partitions and (PND) be arother subsequence. PNA contains the rational numbers of P and PNR contains

everything not rational. Let lim IP/I=0. Now 415

the sequence (S(S,PN)) and converges if all

subsequences counverge to the same point. However,

(S(J,PNR)) and (S(J,PNR)) f.(x) is not ... R.I..

b.) goh = (0, x & Q) which is just like 515

(x, x & Q) post a except replace

f with goh and I with the value of X. okay.

The composition of two functions that are R.I. 5. Definge g(x): \$(a)(x'a) + \$(b)(b-x). (415)

g(a) = \$(b)(b-a) and \$(b) = \$(a)(b-a) next

Since f is strictly increasing, \$(b) > \$(a). right up The area under the curve can then be seen as a piemann sum from a to b. f(b)(b-a) and fall-a) one R. sums of one population with a tog either her a Because t is strictly increasing Startball is the smallest R. sum and Stallball is the largest. So the actual value Saf is insetween these. So with g(x), IVT says g(c) = Sa-f = f(e)(e-a)+5(4)(ba

Mu details. f(1)=0 f'(1)= (+sin(x2) f(x)= and To over K.I. on by continuity b) dere to being continuous Pisatipat Interval -0 S (f, f) - 5 f/s/S(15/,1) [S(49)]=S(1929) P)-565/5 15(A)P)-5651 19,9-50/51/7 /S6f/5/5/9/ the fast - |f(x)| = f(x) = |f(x)|.