Questions	Scores
1	7
2	10
3	5
4	2
5	1
6	10
7	1
8	3
9	2
10	4

TOTAL.
45/65

Acel Analysis HW #6 Where boa 28 (by A.) then a partition with knoths boa, the 11911 will be 1055 than & Be more preuse...

Describe P. 2/5 b.) Suppose Sof, # Sof & ove the two RI Values
of f. & is RI, so IIPHes, 15(P,f)-565/42/2

and IIPHES (S(P,f)-565/42/2 Set S:= min & d, dz3 trel 1865 - Satz/+)  $\begin{aligned} & \|P\|^{2} S, \text{ then } \left[ S_{q}^{6} S_{1}^{5} - S_{q}^{6} S_{2}^{5} \right] = \left[ S_{q}^{6} S_{1}^{5} - S_{1}^{6} S_{1}^{5} \right] + \left[ S_{q}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} + S_{1}^{6} S_{2}^{5} \right] + \left[ S_{1}^{6} S_{2}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{2}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{2}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{2}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{2}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6} S_{2}^{5} \right] \\ & \leq \left[ S_{1}^{6} S_{1}^{5} - S_{1}^{6$ Sof is unique 2 a.) ||P| = 5, 7 | S(5,8) - 5 & 5 | = E/2 ||P| | = 5 ||S(5,8) - 5 & 9 | = E/2 |

10/10) set &= wint &, of & then ||P| | = 5 ||S(5+9,9) - 5 & 5 - 5 & 9 | = E & 5 (5,1) (x,-x,) + E & g(5,1) (x,-x,-) |

| 5|5 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & g(5,1) (x,-x,-) |

| 5|6 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & g(5,1) (x,-x,-) |

| 5|7 ||S(5,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|8 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|8 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|8 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|8 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

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| 5|9 ||S(5+9,9) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x,-x,-) |

| 5|9 ||S(5+9,1) = E & F(5,1) (x,-x,-) + E & F(5,1) (x, 5/5 number so distribute

S(fig,f) = S(f,P) + S(g,f) - 1S(f,P) - 56 f + S(g,f) - 56 g < \frac{5}{2} + \frac{5}{2} < \frac{5}{2}

2 bi f(x) ≤ gix) San 5 ≤ 5 (c) (x,-x,) = = 9(c) (x,-x,) feculo 5-9 - 50 9/ < 50 5+50 9 Okay You arque by contrad. Make it dear from Take S:= min 2 5, 0,3 the beginning. 5/5 Which is a continuition of SGP = SGP) + Wa know that Igh = k(6-a) for some onstant k. If we set M=k then SoM=M(ba). We know that If (1) | M so, from #26, we know that Sas = SaM = M 508 < M(3-a) Use the def. of RI and make 11Phll28. 11/21-01-8 HE>0, 7/1 s.t., n3/ then 1/21-8 )-569/E SCAPN) = = 5(G)(x;-1:4) 10-565/28 S652

a.) Let P be tagget partition with 19=8. S(S, P)== S(G)(X;-X;-1) S(C) Vc; ec;...cy=K 10/10)  $S(f,p) = \frac{1}{2} k(x;-x;-1)$  since f is tagged partition,  $\frac{1}{2}(x;-x;-1) = (b-a)$   $\frac{1}{2}k(x;-x;-1) = k(b-a)$   $\frac{1}{2}(x;-x;-1) = (b-a)$   $\frac{1}{2}k(x;-x;-1) = k(b-a)$   $\frac{1}{2}(x;-x;-1) = (b-a)$   $\frac{1}{2}k(x;-x;-1) = k(b-a)$ =0<\(\xi\) 50 (5(4P)-\(\frac{1}{9}\) + \(\frac{1}{6}\) + \(\frac{1}{6}\) = \(\frac{1}{6}\) \(\ and 56 f= k(6-a) 5/5 514  $\int_{0}^{6} \sin^{2}(x) = \frac{1 - \cos(2x)}{2} = \frac{1}{z} - \frac{1}{z}\cos(2x)$   $\int_{0}^{6} \frac{1}{z} \frac{1}{z\cos(2x)} - \frac{1}{z}\int_{0}^{6} \frac{1}{z}\cos(2x) = \frac{1}{z} - \frac{1}{z}\cos(2x)$   $\int_{0}^{6} \frac{1}{z} \frac{1}{z\cos(2x)} - \frac{1}{z}\int_{0}^{6} \frac{1}{z\cos(2x)} - \frac{1}{$ Z Let P be t.p. of CO, 13 s.t. 11911 = S.

Say Sa, S = then | S(S,P)-t=1 = E

S(E,P) = Ef(C,) (X, X, Y, Z) If C, 2 1/2, Then F(C, Z) = Q and if < < \frac{1}{2}, then \( \frac{1}{2} \) = \ E was oxbiferry, 5 to RI on CO, 13, the def. To in the part of 79999 Let P be a t.p. of 10,13 5.1 11/11<0. Then 54-0. Then 15Cf.P)-DIZE + 15(f.P)/2E 5(5,8)= =1(c) (x:-1-x) if c=0, then 5(c)=0 50 & 9 (0-Q)=0 Su S(A,P)=0 not true! It's only when ci=0 so, 4(x1-x0). 0 11P1 = 0.2 So 11Poll = 0.2 Have 18 portitions from -1 to 2 that are 32 units long so that 119 1 = 0,2. Write it down explicitly... You have to
this may not exist ... use Couchy Crit. 5 c=6-E 119.1126 15(5,9)-5affeE P, t.p. of Enc) P; t.p. of [a, b]=la, c+E] S(f, f)=S(f, f)+f(c)(c+E-c) S(FR)=S(f, P)+f(g) E 15(5,P)-5051-E 15(5,P,)+E5(5)-565/= 15(5,P,)-569/-Ef 15(f.p.)-5.6f/< E(1+5(cg)) Set E in feginning to 1+500 ¿ asbitrary so f is RI on [a,6].