Parhlian P of [a,b]: collection of Fubindents [xo, x,1, [x,, x2], -, [xn-1, xn] of Fa,b] such that a = X0 < X, < ... < Xn = 6 Dx: • X: -x:-. | length of ith subinterval Selection for postition P: collection of points S: {X, X2, ..., X, ? with X, in [X, ..., X,] Detinition (Riemannsum) f defined on la, bi = R : Rigmon Sum - Z JCX; 10X; Papathhon of [4.6] CLE Say this Riemann sum is associated with the pathtion P. S a selection for P Del (Namote partition P): largest of the legths Dx; denoted IPI Det (Detinte Interes): The definite integral of I from a to bit the number I = lim Zit(x;+10x; provided the limit exists, in which case I is integrable on La, b) The eq. meens lat each 6 >0, 43>0 5.1. 15 - lim 25 16x; 10x; 16 6 Jar every Riemann wm essocial cities of patition P of Tailor La chian 1916 . arloma molthich: I: JKridx Tel la a b and a > b: []tendr o []tendr - []tendr Note: sidesessing is party to be some Theyem I cont on [4,6] - I unlesselve on [4,6] Theylem I unlegable on 19,67 with Mestal [ 6-> lim Rn = I Legal regione [Rn], of Rieman sums exercished with a sequence of partitions EP. 3 to 15-, 67 such that 1Pn1-20 C1 n-200