2023010747 31-13 計32 独积分涉业了. 3.2.4. 岩店在f(x,y)>0. 电子f(x,y)连续. 敬存在以区域读在以上f(x,y)>0 因此 ffr. yidxdy>0 2 fix, y, ≥0. ta fix, y, dxdy≥0 切川fix,y,dxdy>o和随. 国地fix,y)=O V(x,y)ED 3.3.5.10 1/ Jodx Six fix, y) dy + Sidx Si-x fix, y) dy = \industrial dy \inty f(x, y) dx + \int dy \inty f(x, y) dx Jodx scosx fix, y) dy =- Sody shows fix, y) dx + Sody sarccosy fix, y) dx 6. (2) II Jza-x dxdy = Sady Sa-12ay-y2 Jza-x dx = \[ \int\_0 - 2\[ \frac{1}{2a-x} \right| \a-\[ \frac{1}{2ay-y^2} \\ \dy =-2 0 N201-01 dry + 2 0 da+ 120y-y2 dry 2 y= a+ asint. t∈[-=,0] Ja Jza-ady = ava Jo Jat Jzay-ye dy = J= = Jza cos = d+acost dt = a Jza | sin = + = sin = 10 6.17, Scosix+y) dx dy = Shdx Shcosix+y) dy = Sh sin(x+y) hdx = Sh-29inxdx = 2cosx = -4 (9) x=x(t) 在(0,217] ] 日反函数 t= t(x), y=y(t(x)) . D为 f(x,y) | 0 ≤ x ≤ 2 Tra, 0 = y ≤ y(t(x))} Sydxdy = Sina dx Syctex)
yidy = Sina 1 yitix))dx = Sin 1 yitix))dx = Sin 1 yitix)dt = = = 1 (1-cost) dt 左极坐标,下积分为 = 35 ha4 2 ( State sing fipcoso, psino) pdp + \frac{F}{F}do \interpressor \text{fipeoso. psino) pdp)