









1 L=LOA+LAB+ LBC Se (14+42+2x) ds= Send (14+42+2x) ds=0 0A: x=4=0 /0(0.0.0) + JLAB (XY+42+ZX) dS = SLAB y dS AB: X=0 Z=1 + SLBC (84+4)2+2x)dS-SLBC(04+1)dS RC: 14=1 Z=1 AB. $ds = \int_0^\infty f(x) dy = \int_0^\infty y dy + \int_0^\infty (2x + y) dx = \frac{5}{2}$ 4. $\int_{1}^{1} \frac{1}{\sqrt{1+x^{2}+z^{2}}} ds = \int_{0}^{2\pi} \frac{1}{a^{2}+b^{2}t^{2}} \int_{0}^{2\pi} \frac{1}{a^{2}+b^{2}} dt = \int_{0}^{2\pi} \frac{1}{a^{2}} \int_{$ 6. $x = a \text{ out } y = b \text{ int } \sqrt{\frac{1}{5}} A \text{ int } \sqrt{\frac{2\pi}{3}} \text{ absintant } \sqrt{\frac{1}{3}} \frac{1}{6} \frac{1}{5} \frac{1}{5}$ 7. $x+y^2=a^2(t^2+1)$ dx/dt=-a sint+a sint+a t est=a t est $4i + 3i^2 = a^2(t^2+1)$ dy/dt=a cst-a cst+a t sint=a t sintSe Jain de = Son a Stir at at a dt = a stir t dt - 3 (4 min) = 8. Sign+Jy-Z*) ds = Si (x+Jy-Z5)ds + Si (x+Jy-Z*)ds = Sa 2x JI+4x dx + S1 (2-25) JI dz = - (555-1)+2-+= - - + - = - +