



2. Met B: LO, IJ PR be a curve given by Consider the prage of the curve on the unit sphere Z(UIV) = (cosuspav, spauspav, cosu). Fond the length of the curve. B(E)=(u1+),v(+))=(Incot(===)1=+) 0=+=== X (U,V)= (cosus ANV, SPAUSTAV, COSV) S= J(I) + ) I= E(\frac{1}{2})^2 + 2F \frac{1}{2} \cdot \frac{1}{2} + 6(\frac{1}{2})^2 X = (-senusenv, cosusenv, O) Z= (cosucosu, strucosu, -stru) E = ZZ Z > = sent sent + cost sent = sent F= 0 , G= cost cost + sent cost +sent = 1 v=ln(cot(ま・2)=) du = 立 csc (ま・2) = 1 1 cos(ま・2)sin(ま・2) V= 13-6 => dV =-1 S= 52 (502(1-6) (1-6) (1-6) 2+20+(-1)2 06 = 371+1 Ot = 5352t = (526) 12 = (527

