$r(t) = \langle 2 \cos t, 3 \sin t \rangle$ Find K as t = 0 $\Gamma(t) = <-2 \sin t, s_{Cost}$ t= 5 rit) <-2511t, 300st> |rit) /45117t+900st T(+) 5 sin2t 10 cost sint (+X sint) -350nt () + 1 = 5 sin 2 + (3 cost) 4+5 cos 4 $4+5\cos^{2}4$ $F'(0) = \langle 0, 3 \rangle |r'| = 3$ $K = \frac{6}{7} = \frac{2}{7}$ $K = \frac{6}{7} = \frac{2}{7}$

 $r(t) = \langle cost, sint, t \rangle$