Sheet 8 - Coneyt Erem, Sheilh Mastern Furzam, Md Entazel Haque write more clearly or i Theorys As-2 314 a) p(+): R=2 of crole + R++? p(+) = (recot) where + ECO2R]. b) target vector . T(4) at $t = \pi/4$ and R = 2? $T(t) = \frac{dP(t)}{dt} = \begin{pmatrix} -r.sMt \\ r.cost \end{pmatrix} = \begin{pmatrix} -2.sMR/4 \\ 2.cosR/4 \end{pmatrix} = \begin{pmatrix} -\sqrt{2} \\ \sqrt{2} \end{pmatrix}$ c) prove come pregular, w+Rand+? if the cine is consumouly differentable and domaine is not equal to zero. Then
It is regular, we know that $\frac{dP(t)}{ft} = (\frac{-rant}{rost})$ so IT I differentiable, also continuously -sin, cos are for p (4) \$0, (-rant) \$0 if \$ \$0 continuous... SO THD regular (1) La short explanaition d) leigh parameterned? Curve. Is length parametered iff [[p(+)+]=1,+ER then $P(t) = \begin{pmatrix} 2\cos t \\ 2\sin t \end{pmatrix}$ Practical Points: 0/6 (no hand in) 11p1(+) 11= 11-2sm+)2+(20s+)21 so it is not an longth parameterized. For R=2. consider what happens for different P...