

Elementary Differential Geometry Solution

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Elementary Differential Geometry O Solution 25sin 2t = cos 2t + sin 2t = 1. 1.2.3 Denoting d/d by a dot, $\dot{\gamma} = (r' \cos \theta - r \sin \theta, r' \sin \theta + r \cos \theta)$ so $|\dot{\gamma}|^2 = r'^2 + r^2$. Hence, γ is regular unless $r = r' = 0$ for some value of t . It is unit-speed if and only if $r^2 + r'^2 = 1$. To see that this is the equation of a circle of radius $1/\sqrt{2}$, see the diagram in the proof.

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