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Chapter 1 1.1.1 It is a parametrization of the part of the parabola

with $x \geq 0$. 1.1.2 (i) $\gamma(t) = (\sec t, \tan t)$ with $-\pi/2 < t < \pi/2$ and $\pi/2 < t < 3\pi/2$.

Note that γ is defined on the union of two disjoint intervals:

this corresponds to the fact that the hyperbola $y^2 - x^2 = 1$ is in two

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pieces, where $y \neq 1$ and where $y \neq -1$.

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Then, $t' = \kappa n$, $n' = -\kappa t + \tau b$ (2.17) $b' = -\tau n$. Equations 2.17 are
called the Frenet–Serret equations. Notice that the matrix $\begin{pmatrix} 0 & \kappa & 0 \\ \kappa & 0 & 0 \\ 0 & 0 & -\tau \end{pmatrix}$
 $\begin{pmatrix} 0 & \kappa & 0 \\ \kappa & 0 & 0 \\ 0 & 0 & -\tau \end{pmatrix}$ f2.3 Space curves 51 which expresses t' , n' and b'
in terms of t , n and b is skew-symmetric, i.e., it is equal to the

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negative of its transpose.

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$OQ = [e, f] + t[\hat{b}, a], t \in \mathbb{R}$ with $[e, f]$ any vector solving the equation $ae + bf = d$. For $a \neq 0$, one may use $[e, f] = [d/a, 0]$, for $b \neq 0$, a simple solution has coordinates $[0, d/b]$. A solution that always works is $[e, f] = [ad/(a^2+b^2), bd/(a^2+b^2)]$. Note that the parallel vector $[\hat{b}, a]$ is the hat vector to the vector $n = [a, b]$.

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[4] B. O'Neill Elementary differential geometry, Academic Press.

[5] M. Spivak, A comprehensive introduction to Differential Geometry, Publish or Perish.

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