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Solutions to the Exercises in Elementary Differential

Geometry 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 $-\pi/2 < t$

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$-\frac{\pi}{2}$ and $\frac{\pi}{2} < \theta < \frac{3\pi}{2}$. Note that r 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 pieces, where $y \geq 1$ and where $y \leq -1$.

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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 $\begin{bmatrix} 0 & \kappa & 0 \\ \kappa & 0 & \tau \\ 0 & -\tau & 0 \end{bmatrix}$ 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 negative of its transpose.

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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 $[b, a]$ is the normal vector to the vector $n = [a, b]$.

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Publisher Summary. This chapter focuses on the geometry of curves in \mathbb{R}^3 because the basic method used to investigate curves has proved effective throughout the study of differential geometry. A curve in \mathbb{R}^3 is studied by assigning at each point a certain frame—that is, set of three orthogonal unit

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