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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  $-\pi/2 < t < \pi/2$  and  $\pi/2 < t < 3\pi/2$ . Note that  $\gamma$  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  $y \geq 1$  and where  $y \geq 1$ .

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Then,  $t' = \frac{1}{n} \frac{dn}{dt} = \frac{1}{n} (2.17) b' = \frac{1}{n} \frac{db}{dt}$ . Equations 2.17 are called the Frenet-Serret equations. Notice that the matrix  $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$  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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Bing: Elementary Differential Geometry O Solution OQ=  $\{[e,f]+t[b,a], t \in \mathbb{R}\}$  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

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OQ=  $\{[e,f]+t[b,a], t \in \mathbb{R}\}$  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  $[b,a]$  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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Differential Geometry, Revised 2nd Edition*, provides an introduction  
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the accessibility of the first, while providing an introduction to the  
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