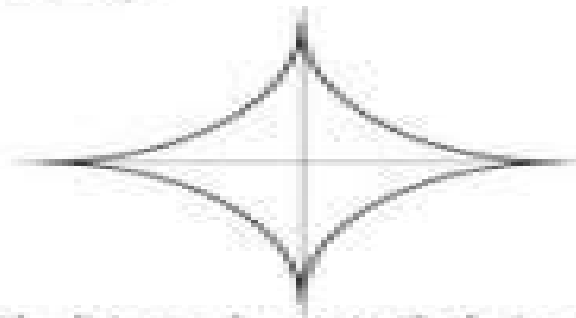


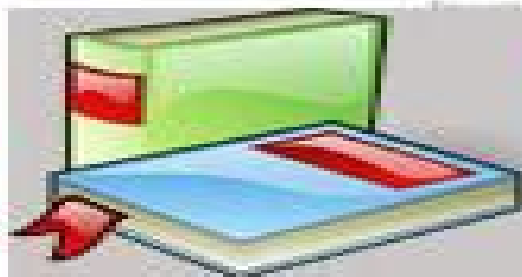
Solutions to the Exercises in Elementary Differential Geometry

Chapter 1

- 1.1.1 It is a parametrization of the part of the parabola with $x \geq 0$.
- 1.1.2 (i) $\gamma(t) = (\cos t, \sin t)$ 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 pieces, where $y \geq 1$ and where $y \leq -1$.
(ii) $\gamma(t) = (t \cosh t, t \sinh t)$.
- 1.1.3 (i) $a + b = 1$.
(ii) $a = (\sin x)^2$.
- 1.1.4 (i) $\gamma(t) = \sin 2t (-1, 1)$.
(ii) $\gamma(t) = (t^2, 2t)$.
- 1.1.5 $\gamma(t) = 2 \sinh(\cos t) (-\cosh t, \sinh t)$ regardless whether $\cos t \in [0, \pi]$ or $\cos t \in [\pi, 2\pi]$, i.e., $t \in [-\pi/2, \pi/2]$ where $\cos$ is non-negative. These points correspond to the four edges of the astroid (see Exercise 1.2.4).



- 1.1.6 (i) The equation of the distance from p to the focal axis
 (convert to $xy^2 = y^2 \sin^2 t = (y^2 - x^2) \cos^2 t + 2xy^2 \cos t = y^2 = y^2 (1.5 \cos t)^2$,
 so the sum of the distances is $2y$.
 (ii) $\gamma = (-\cos t \cosh t, \sinh t)$ or $(\cosh t, \cos t)$; then $\dot{\gamma} = (0, 1)$. Hence the distances from the foci to the tangent line at $\gamma(t)$ are
 (convert to $xy^2 = y^2 \sin^2 t = (y^2 - x^2) \cos^2 t + 2xy^2 \cos t$ and $y^2 = y^2 (1.5 \cos t)^2$).



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