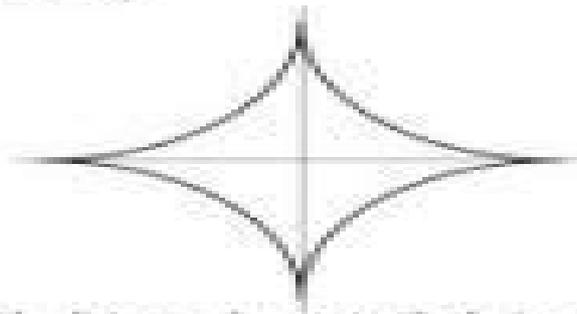


Solutions to the Exercises in Elementary Differential Geometry

Chapter 1

- 1.1.1 \mathbf{r} is a parametrization of the part of the parabola with $x \geq 0$.
- 1.1.2 (i) $\mathbf{r}(t) = (a \cos t, a \sin t)$ with $-\pi/2 < t < \pi/2$ and $\pi/2 < t < 3\pi/2$. Note that \mathbf{r} is defined on the union of two disjoint intervals; this corresponds to the fact that the hyperboloid $x^2 - y^2 = 1$ is in two pieces, where $x \geq 1$ and where $x \leq -1$.
(ii) $\mathbf{r}(t) = (2 \cos t, 3 \sin t)$.
- 1.1.3 (i) $\mathbf{r} = (x, y, z)$.
(ii) $\mathbf{r} = (2x, y^2)$.
- 1.1.4 (i) $\mathbf{r}(t) = \sin 2t(-1, 1, 1)$.
(ii) $\mathbf{r}(t) = (t^2, 2t)$.
- 1.1.5 $\mathbf{r}(t) = (2 \sin \pi t \cos t, -\cos t, \sin t)$ represents spheres where $\sin t = 0$ or $\cos t = 0$, i.e., $t = \pi n/2$ where n is any integer. These points correspond to the four edges of the octahedron (see Exercise 1.2.4).



- 1.1.6 (i) The equation of the distance from q to the feet are

$$D_{\text{right}} = \sqrt{y^2 + z^2 \sin^2 t} = \sqrt{y^2 + z^2} \cos t$$

$$D_{\text{left}} = \sqrt{y^2 + z^2 \sin^2 t} + 2y \cos t = \sqrt{y^2 + z^2} \cos t + 2y$$
 so the sum of the distances is $2y$.
 (ii) $\mathbf{r} = (y \cos t, y \sin t, z \cos t)$ so $\mathbf{r} \cdot \mathbf{n} = (y \cos t, y \sin t)$ thus $\mathbf{r} \cdot \mathbf{n} = 0$. Hence the distances from the feet to the tangent line at $\mathbf{r}(t)$ are



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