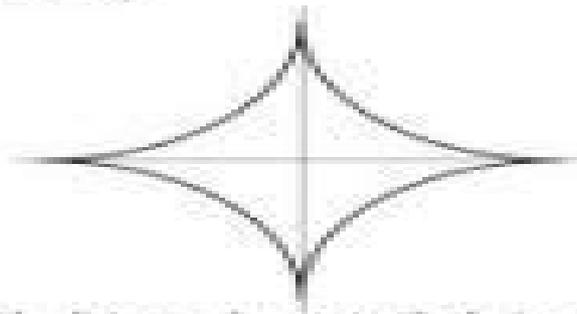


# Solutions to the Exercises in Elementary Differential Geometry

## 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  $\mathbf{r}(t) = (2 \sin t \cos t, -\cos t, \sin t)$  requires where  $\sin t = 0$  or  $\cos t = 0$ , i.e.,  $t = \pi/2$  where  $x$  is any integer. These points correspond to the four edges of the surface (see Exercise 1.2.4).



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

$$(\cos t - x)^2 + y^2 \sin^2 t = (x^2 - y^2) \cos^2 t + 2xy \cos t + y^2 = y^2(1 - \cos^2 t)^2,$$
 so the sum of the distances is  $2y$ .  
 (ii)  $\mathbf{r} = (y \cos t, y \sin t)$  so  $\mathbf{r} \cdot \mathbf{n} = (y \cos t, y \sin t) \cdot (0, 0, 1) = 0$ . Hence the distances from the feet to the tangent line at  $\mathbf{r}(t)$  are



# Geometry Instructor Solution Manual

**Padhraic Smyth**



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