Proposition 4.4 (Clairaut's relation). The geodesics on a surface of revolution satisfy the equation

$$r\cos\phi = \text{const},$$

where r is the distance from the axis of revolution and ϕ is the angle between the geodesic and the parallel. Conversely, any (constant speed) curve satisfying (\diamondsuit) that is not a parallel is a geodesic.

Proof. For the surface of revolution parametrized as in Example 9 of Section 2, we have E=1, F=0, $G=f(u)^2$, $\Gamma^{\nu}_{uv}=\Gamma^{\nu}_{vu}=f'(u)/f(u)$, $\Gamma^{\nu}_{vv}=-f(u)f'(u)$, and all other Christoffel symbols are 0 (see Exercise 2.3.2d.). Then the system (\$\.\black\b

$$u'' - ff'(v')^2 = 0$$

$$v'' + \frac{2f'}{f}u'v' = 0.$$

Rewriting the equation (†2) and integrating, we obtain

$$\frac{v''(t)}{v'(t)} = -\frac{2f'(u(t))u'(t)}{f(u(t))}$$

$$\ln v'(t) = -2\ln f(u(t)) + \text{const}$$

$$v'(t) = \frac{c}{f(u(t))^2},$$

so along a geodesic the quantity $f(u)^2v' = Gv'$ is constant. We recognize this as the dot product of the tangent vector of our geodesic with the vector \mathbf{x}_v , and so we infer that $\|\mathbf{x}_v\| \cos \phi = r \cos \phi$ is constant. (Recall that, by Proposition 4.2, the tangent vector of the geodesic has constant length.)

To this point we have seen that the equation (\dagger_2) is equivalent to the condition $r \cos \phi = \text{const.}$, provided we assume $\|\alpha'\|^2 = u'^2 + Gv'^2$ is constant as well. But if

$$u'(t)^2 + Gv'(t)^2 = u'(t)^2 + f(u(t))^2v'(t)^2 = \text{const.}$$

we differentiate and obtain

$$u'(t)u''(t) + f(u(t))^2v'(t)v''(t) + f(u(t))f'(u(t))u'(t)v'(t)^2 = 0;$$

substituting for v''(t) using (\dagger_2) , we find

$$u'(t)(u''(t) - f(u(t))f'(u(t))v'(t)^{2}) = 0.$$

In other words, provided $u'(t) \neq 0$, a constant-speed curve satisfying (\dagger_2) satisfies (\dagger_1) as well. (See Exercise 6 for the case of the parallels.)

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