Riemannian Geometry

Hints 17-18

- 1. (*) Compute f'', then use Jacobi equation. Finally, see that you have a sum of two positive terms (here it may be useful to notice that the denominator in the definition of sectional curvature is always positive -why it is?).
- 3. (*) To compute $\frac{D}{dt}\frac{\partial F}{\partial s}(0,0)$ use Symmetry Lemma.