Riemannian Geometry, Hints 5

- **5.1** (a) Use that Z(ag) = aZ(g) (Why is it?)
- **5.2** (b) It is possible to generalize the solution of Exercise 4.4.(b).
- 5.4 (a) One can do it my an explicit computation.
 - (b) Consider a curve z(t) in $\mathbb{H}^2 \subset \mathbb{C}$. Find $Df_A(z'(0))$, then check that $\langle Df_A(z'(0)), Df_A(z'(0)) \rangle = \langle z'(0), z'(0) \rangle$.