Errata: Torsion

The expression for $\Delta \Gamma^g_{\mu \nu}$ should have been:

$$\Delta \Gamma^g_{\mu \nu} = -\frac{1}{2} \left( T^g_{\mu \nu} + T_{\nu \mu}^g + T^g_{\mu \nu} \right)$$

Exercise 17 Show that

The antisymmetric part of $\Delta \Gamma^g_{\mu \nu}$ is the torsion tensor:

$$\Delta \Gamma^g_{\mu \nu} - \Delta \Gamma^g_{\nu \mu} = -T^g_{\mu \nu}$$