b) Recall:

From Q9. suppose V,,..., vn is bossis of V, and e,,..., en is dual basis. then for any up & V',

年:4(Vn) en + 中(Vn) en

Analogously, e_1, e_2, e_3 is a basis of \mathbb{R}^3 , and Ψ_1, Ψ_2, Ψ_3 is the dual basis. Then for $\Gamma'(\Psi_1)$, $\Gamma'(\Psi_2) \in (\mathbb{R}^3)^2$, $(\Gamma': \mathbb{R}^2 \to \mathbb{R}^3)$ $\Gamma'(\Psi_1) = \Gamma'(\Psi_1)(\Psi_1) \Psi_1 + \Gamma'(\Psi_1)(\Psi_2) \Psi_2 + \Gamma'(\Psi_1)(\Psi_2) \Psi_3$ $\Gamma'(\Psi_2) = \Gamma'(\Psi_1)(\Psi_1) \Psi_2 + \Gamma'(\Psi_2)(\Psi_3) \Psi_4 + \Gamma'(\Psi_4)(\Psi_5) \Psi_4$

T'(42)(e3) Ty + T'(42)(e3) Ty2 +