Hints
Homogeneous Transformations

Task 1.   Determination of the homogeneous transformation according to the "Look-At" specification

$$\underline{y}_{eye} = \frac{\underline{p}_{ref} - \underline{p}_{eye}}{|\underline{p}_{ref} - \underline{p}_{eye}|}$$

$$\underline{x}_{eye} = \frac{\underline{y}_{eye} \times \underline{z}_{World}}{|\underline{y}_{eye} \times \underline{z}_{World}|}$$

$$\underline{z}_{eye} = \frac{\underline{x}_{eye} \times \underline{y}_{eye}}{|\underline{x}_{eye} \times \underline{y}_{eye}|}$$

Task 2.   Determination of a homogeneous transformation for stereo views

$$^{eye_l}\underline{T}_{eye_r} = \underline{Rot}(\underline{z}_l, \alpha) \cdot \underline{Trans}(\underline{x}_{l'}, d) \cdot \underline{Rot}(\underline{z}_{r'}, \alpha)$$