

16:02

$$\begin{array}{l} -c_{\gamma}c_{\beta}c_{\alpha_1}l_3c_{\alpha_2} - s_{\gamma}c_1s_{\alpha_1}l_3c_{\alpha_2} + c_{\gamma}s_{\gamma}l_3c_{\alpha_2} + c_{\gamma}s_{\gamma}c_1l_3s_{\alpha_2} - c_{\gamma}c_{\beta}l_3c_{\alpha_1} + s_{\gamma}c_1l_3s_{\alpha_2} - c_{\gamma}s_{\gamma}l_3l_2s_{\alpha_1} - c_{\gamma}c_{\beta}x_{R,1} + c_{\gamma}l_3y_{R,1} + c_{\gamma}s_{\beta}c_1y_{R,1} + x_{\alpha_1} \Rightarrow x_{\gamma} \text{ ①} \\ -s_{\gamma}c_{\beta}c_{\alpha_1}l_3c_{\alpha_2} + c_{\gamma}c_1s_{\alpha_1}l_3c_{\alpha_2} + s_{\gamma}s_{\gamma}l_3l_2s_{\alpha_1} + s_{\gamma}s_{\gamma}c_{\beta}l_3c_{\alpha_1} - s_{\gamma}c_{\beta}l_3c_{\alpha_1} - c_{\gamma}l_3l_2s_{\alpha_1} - s_{\gamma}s_{\beta}c_1l_3s_{\alpha_2} - s_{\gamma}c_{\beta}x_{R,1} - c_{\gamma}l_3y_{R,1} + s_{\gamma}s_{\beta}c_1y_{R,1} + y_{\alpha_1} \Rightarrow y_{\gamma} \text{ ②} \\ - - - - - + s_{\beta}c_{\alpha_1}l_3c_{\alpha_2} + c_{\beta}c_1l_3s_{\alpha_2} + c_{\beta}c_1l_3s_{\alpha_1} - c_{\beta}l_3l_2s_{\alpha_1} + s_{\beta}x_{R,1} + c_{\beta}c_1y_{R,1} + z_{\alpha_1} - - - - - \Rightarrow z_{\gamma} \text{ ③} \end{array}$$