$$egin{aligned} oldsymbol{r}_1 = egin{pmatrix} x_1 \ y_1 \ z_1 \ \end{pmatrix} & oldsymbol{r}_3 = egin{pmatrix} x_2 \ y_2 \ R + z_2 \ \end{pmatrix} & oldsymbol{\mu}_2 \ \end{pmatrix} & oldsymbol{\mu}_2 \ \end{pmatrix} & oldsymbol{r}_3 = egin{pmatrix} 0 \ 0 \ R \ \end{pmatrix} & oldsymbol{r}_3 = egin{pmatrix} 0 \ 0 \ R \ \end{pmatrix} & oldsymbol{r}_3 = egin{pmatrix} 0 \ 0 \ R \ \end{pmatrix} & oldsymbol{r}_3 = oldsymbol{r}_3 \ \end{pmatrix} & oldsymbol{r}_3 = oldsymbol{r}_3 \ \end{pmatrix} & oldsymbol{r}_3 = oldsymbol{r}_4 \ \end{pmatrix} & oldsymbol{r}_4 \ \end{pmatrix} & oldsymbol{r}_4 \ \end{pmatrix} & oldsymbol{r}_4 \ \end{pmatrix} & oldsymbol{r}_5 \ \end{pmatrix} & oldsymbol{r}_7 \ \end{pmatrix} & oldsymbol{r}_8 \ \end{pmatrix} & oldsymbol{r}_8 \ \end{pmatrix} & oldsymbol{r}_8 \ \end{pmatrix} & oldsymbol{r}_8 \ \end{pmatrix}$$