Formulae:

$${}^{i-1}_{i}H = R_X(\alpha_{i-1})D_X(a_{i-1})R_Z(\theta_i)D_Z(d_i)$$

$$\cos^2\theta + \sin^2\theta = 1$$

$$\cos(\alpha \pm \beta) = \cos\alpha\cos\beta \mp \sin\alpha\sin\beta$$

$$\sin(\alpha \pm \beta) = \sin\alpha\cos\beta \pm \cos\alpha\sin\beta$$

Equation(s)	Solution(s)
$\sin\theta = a$	$\theta = \text{Atan2}\left(a, \pm\sqrt{1-a^2}\right)$
$\cos\theta = b$	$\theta = \text{Atan2}\left(\pm\sqrt{1-b^2}, b\right)$
$\begin{cases}\sin\theta = a \\ \cos\theta = b\end{cases}$	$\theta = \text{Atan2}(a, b)$
$a\cos\theta - b\sin\theta = 0$	$\theta^{(1)} = \text{Atan2}(a, b)$ $\theta^{(2)} = \text{Atan2}(-a, -b) = \pi + \theta^{(1)}$
$a\cos\theta + b\sin\theta = c$	$\theta^{(1)} = \text{Atan2}\left(c, \sqrt{a^2+b^2-c^2}\right) - \text{Atan2}(a, b)$ $\theta^{(2)} = \text{Atan2}\left(c, -\sqrt{a^2+b^2-c^2}\right) - \text{Atan2}(a, b)$
$\begin{cases}a\cos\theta - b\sin\theta = c \\ a\sin\theta + b\cos\theta = d\end{cases}$	$\theta = \text{Atan2}(ad - bc, ac + bd)$
$\begin{cases}\sin\alpha\sin\beta = a \\ \cos\alpha\sin\beta = b \\ \cos\beta = c\end{cases}$	$\begin{cases}\alpha^{(1)} = \text{Atan2}(a, b) \\ \beta^{(1)} = \text{Atan2}\left(\sqrt{a^2+b^2}, c\right)\end{cases}$ $\begin{cases}\alpha^{(2)} = \text{Atan2}(-a, -b) = \pi + \alpha^{(1)} \\ \beta^{(2)} = \text{Atan2}\left(-\sqrt{a^2+b^2}, c\right)\end{cases}$