$$\begin{bmatrix} (1.0\sin(\theta_1)\cos(\theta_2) + 1.0\sin(\theta_2)\cos(\theta_1))\sin(\theta_5) + (-1.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_3)\sin(\theta_4) + (-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\cos(\theta_3)\cos(\theta_4))\cos(\theta_5) & (1.0\sin(\theta_1)\cos(\theta_2) + 1.0\sin(\theta_2)\cos(\theta_1))\cos(\theta_5) - 1.0(-1.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_3)\sin(\theta_4) + (-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\cos(\theta_3)\cos(\theta_4))\sin(\theta_5) & 1.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_3)\cos(\theta_4) + 1.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_4)\cos(\theta_3) & 10.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_3)\cos(\theta_4) + 10.0(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\sin(\theta_4)\cos(\theta_3) + 5.74(-1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2))\cos(\theta_3) - 9.15\sin(\theta_1)\sin(\theta_2) + 9.15\cos(\theta_1)\cos(\theta_2) + 9.28\cos(\theta_1) \\ (1.0\sin(\theta_1)\cos(\theta_2) - 1.0\cos(\theta_1)\cos(\theta_2))\sin(\theta_5) + (-1.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_3)\sin(\theta_4) + (\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\cos(\theta_3)\cos(\theta_4))\cos(\theta_5) & (1.0\sin(\theta_1)\sin(\theta_2) - 1.0\cos(\theta_1)\cos(\theta_2))\cos(\theta_5) - 1.0(-1.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_3)\sin(\theta_4) + (\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\cos(\theta_3)\cos(\theta_4))\sin(\theta_5) & 1.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_3)\cos(\theta_4) + 1.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_4)\cos(\theta_3) & 10.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_3)\cos(\theta_4) + 10.0(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\sin(\theta_4)\cos(\theta_3) + 5.74(\sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1))\cos(\theta_3) + 9.15\sin(\theta_1)\cos(\theta_2) + 9.28\sin(\theta_1) + 9.15\sin(\theta_2)\cos(\theta_2) \\ (1.0\sin(\theta_3)\cos(\theta_4) + 1.0\sin(\theta_4)\cos(\theta_3))\cos(\theta_5) & -1.0(1.0\sin(\theta_3)\cos(\theta_4) + 1.0\sin(\theta_4)\cos(\theta_3))\sin(\theta_5) & 1.0\sin(\theta_3)\sin(\theta_4) - 1.0\cos(\theta_3)\cos(\theta_4) & 10.0\sin(\theta_3)\sin(\theta_4) + 5.74\sin(\theta_3) - 10.0\cos(\theta_3)\cos(\theta_4) + 16.39 \\ 0.0 & 0.0 & 0.0 & 1.0 \end{bmatrix}$$

$$\begin{bmatrix} -1.0\sin(\theta_1)\sin(\theta_2) + \cos(\theta_1)\cos(\theta_2) & 0 & 1.0\sin(\theta_1)\cos(\theta_2) + 1.0\sin(\theta_2)\cos(\theta_1) & -9.15\sin(\theta_1)\sin(\theta_2) + 9.15\cos(\theta_1)\cos(\theta_2) + 9.28\cos(\theta_1) \\ \sin(\theta_1)\cos(\theta_2) + \sin(\theta_2)\cos(\theta_1) & 0 & 1.0\sin(\theta_1)\sin(\theta_2) - 1.0\cos(\theta_1)\cos(\theta_2) & 9.15\sin(\theta_1)\cos(\theta_2) + 9.28\sin(\theta_1) + 9.15\sin(\theta_2)\cos(\theta_1) \\ 0.0 & 1.0 & 0.0 & 16.39 \\ 0.0 & 0.0 & 0.0 & 1.0 \end{bmatrix}$$

$$\begin{bmatrix} 0.22 & 0.0 & 0.97 & 9.75 \\ 0.97 & 0.0 & -0.22 & 14.1 \\ 0.0 & 1.0 & 0.0 & 16.39 \\ 0.0 & 0.0 & 0.0 & 1.0 \end{bmatrix}$$