theta1 = 1.67942455356148

theta2 = -1.53781188619282

theta3 = 0.158976866979911

theta4 = -2.62229723748184

theta5 = 0.220235836120744

theta6 = 2.63276578119169

theta1 = 1.71663239168257

theta2 = -1.51713512764563

theta3 = -0.00872684003364976

theta4 = -1.86758869576593

theta5 = 0.152554639521686

theta6 = 1.87087158978079

theta1 = 1.75343812355569

theta2 = -1.52204802225066

theta3 = 0.142650875022172

theta4 = -2.37094962907059

theta5 = 0.263784816073876

theta6 = 2.38853037667798

theta1 = 1.65626690427801

theta2 = -1.53552206958788

theta3 = 0.0664224375664701

theta4 = -2.44061997547697

theta5 = 0.132748723743606

theta6 = 2.44497240568646

theta1 = 1.77594731282207

theta2 = -1.50992024173282

theta3 = 0.0397414886277634

theta4 = -2.02054142448599

theta5 = 0.228184793607061

theta6 = 2.03090732662457