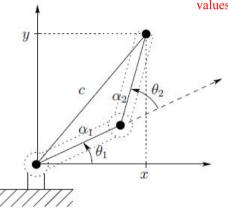


IK: 2 Links using MATLAB



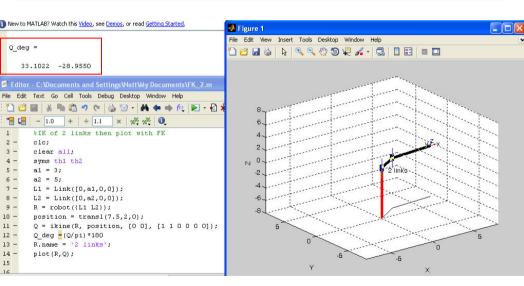
Ex: Let $\square \alpha 1 = 3$ and $\alpha 2 = 5$, obtain the possible values of θ 1 and θ 2 for point(7.5,2).



Link	a_i	α_i	d_i	θ_i
1	a_1	0	0	θ_1^*
2	a_2	0	0	θ_2^*

IK: 2 Links using MATLAB





IK: 2 Links using MATLAB

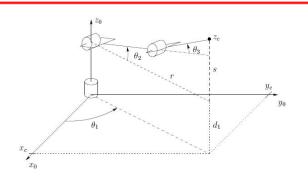


```
♣ Figure 1

 Q_deg =
                                                                     File Edit View Insert Tools Desktop Window Help
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     -3.2394
                28,9550
Editor - C: Documents and Settings Wott Wy Documents VFK 2.m.
        Text Go Cell Tools Debug Desktop Window Help
                               10 · M (= =) fo | D · 10 × 10 × 10
        % IK of 2 links then plot with FK
        cle:
        clear all;
        syms thi th2
        a1 = 3:
        a2 = 5;
        L1 = Link([0,a1,0,0]);
        L2 = Link([0,a2,0,0]);
        R = robot({L1 L2});
        position = transl(7.5,2,0);
        Q = ikine(R, position, [-pi/20 pi/20], [1 1 0 0 0 0]);
        Q deg = (Q/pi) *180
        R.name = '2 links';
14 -
        plot(R,Q);
15
16
                                                                                                                       X
                                            script
```

IK: RRR using MATLAB





RRR

Link	a_i	α_i	d_i	θ_i
1	0	90	d_1	θ_1^*
2	a_2	0	0	θ_2^*
3	a_3	0	0	θ_3^*

RRR with no offset configuration.

Let $\Box \alpha 2 = 3$ and $\alpha 3 = 5$ d1 = 2, obtain the possible values of θ 1, θ 2 and θ 3 for point (7.75,1.95, 1.5).

IK: RRR using MATLAB



