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## HW 7 #4

```
clear; clc;
```

## Given

```
r1x = 7.5;
r1y = 5;
r1 = sqrt(r1x^2 + r1y^2);
r2 = 2;
r3 = 6;
r4 = 6;
r5 = 6;

theta1 = rad2deg(atan(r1y/r1x));
theta2 = 45;
%theta1 = 0;
omega2 = rad2deg(1000*2*pi/60);
alpha2 = 0;
```

## **Calculations**

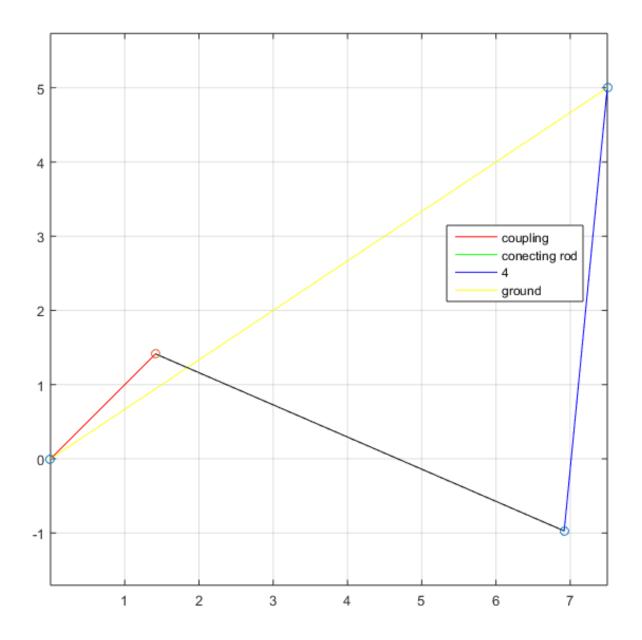
Equation solved.

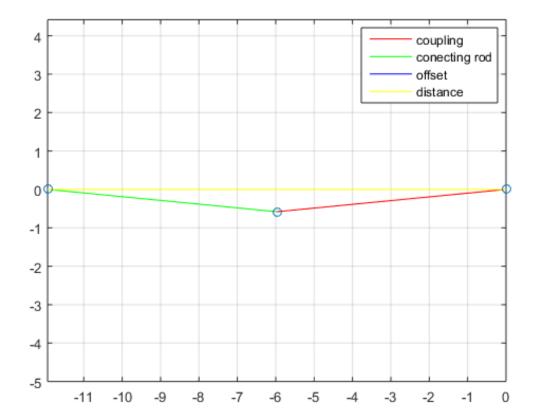
fsolve completed because the vector of function values is near zero as measured by the default value of the function tolerance, and

the problem appears regular as measured by the gradient.

Aa = -50911688.2454 -50911688.2454  $cm/sec^2$  in the X and Y directions Ab = -53433578.3657 59077234.7997  $cm/sec^2$  in the X and Y directions

 $Ac = 20365986.1868 \text{ cm/sec}^2 \text{ in the Y direction}$ 





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