Generalized coordinates: q = [xa ya thetaa xb yb thetab xc yc thetac xd yd]'

```
>> q(1,:) % Position problem
ans =

  0.3536   0.3536   0.7854   1.7672   1.1529   0.3980   2.4136   0.7993   4.2348   1.1605
  1.3046
```