

```

1  syms s1 s2 s3 c1 c2 c3 L2 L3
2
3  Jv = [-L2*c1-L3*s1*s2 L3*c1*c2 c1*s2
4        L3*c1*s2-L2*s1 L3*c2*s1 s1*s2
5        0 -L3*s2 c2]
6
7  simplify(det(Jv))

```

Command Window

```

-L3^2*s2*(c1^2 + s1^2)*(c2^2 + s2^2)

```