

```
clear all; close all; clc;
```

3(c) - Set 1:

```
L = [.1 .1 .1 .1 .1 .1 .1 .1 .1];
T = [.1 .1 .1 .1 .1 .1 .1 .1 .1];

[ee1, Jnt] = FK(L, T);
```

tMat =

```
0.6216    -0.7833         0    0.7638
0.7833     0.6216         0    0.4172
         0         0    1.0000         0
         0         0         0    1.0000
```

ee =

```
0.7638
0.4172
```

3(c) - Set 2:

```
L = [.3 .2 .1 .1 .2 .1 .3 .1 .1];
T = [.4 .6 .2 .5 .1 .7 .3 .2 .1];

[ee2, Jnt] = FK(L, T);
```

tMat =

```
-0.9991    -0.0416         0   -0.1994
0.0416    -0.9991         0    0.8509
         0         0    1.0000         0
         0         0         0    1.0000
```

ee =

```
-0.1994
0.8509
```

3(c) - Set 3:

```
L = [.1 .1 .1];
T = [.1 .1 .1];

[ee3, Jnt] = FK(L, T);
```

tMat =

0.9553	-0.2955	0	0.2930
0.2955	0.9553	0	0.0594
0	0	1.0000	0
0	0	0	1.0000

ee =

0.2930
0.0594

3(c) - Set 4:

```
L = [.1 ];
T = [.1 ];

[ee4, Jnt] = FK(L, T);
```

tMat =

0.9950	-0.0998	0	0.0995
0.0998	0.9950	0	0.0100
0	0	1.0000	0
0	0	0	1.0000

ee =

0.0995
0.0100

3(c) - Set 5:

```
L = [.2 .2 .2 .2 .2 .2 .2];  
T = [.2 .2 .2 .2 .2 .2 .2];
```

```
[ee5, Jnt] = FK(L, T);
```

```
tMat =
```

```
    0.1700    -0.9854         0    0.8992  
    0.9854     0.1700         0    0.9258  
         0         0    1.0000         0  
         0         0         0    1.0000
```

```
ee =
```

```
    0.8992  
    0.9258
```

3(c) - Set 6:

```
L = [.3 .2 .1 .1 .2];  
T = [.4 .6 .2 .5 .1];
```

```
[ee6, Jnt] = FK(L, T);
```

```
tMat =
```

```
   -0.2272   -0.9738         0    0.3623  
    0.9738   -0.2272         0    0.6723  
         0         0    1.0000         0  
         0         0         0    1.0000
```

```
ee =
```

```
    0.3623  
    0.6723
```

3(c) - Set 7:

```
L = [.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1];
T = [.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1];
```

```
[ee7, Jnt] = FK(L, T);
```

```
tMat =
```

```
    0.2675    -0.9636         0    0.9261
    0.9636     0.2675         0    0.7801
         0         0    1.0000         0
         0         0         0    1.0000
```

```
ee =
```

```
    0.9261
    0.7801
```

3(c) - Set 8:

```
L = [.3 .2 .1 .1 .2 .1 .3 .1 .1 .1 .1];
T = [.4 .6 .2 .5 .1 .7 .3 .2 .1 .1 .1];
```

```
[ee8, Jnt] = FK(L, T);
```

```
tMat =
```

```
   -0.9875     0.1577         0   -0.3980
   -0.1577    -0.9875         0    0.8293
         0         0    1.0000         0
         0         0         0    1.0000
```

```
ee =
```

```
   -0.3980
    0.8293
```