

Console

```
--> x=90*%pi/180
```

```
x =
```

```
1.5707963
```

```
--> y=30*%pi/180
```

```
y =
```

```
0.5235988
```

```
--> z=70*%pi/180
```

```
z =
```

```
1.2217305
```

```
--> A=[cos(z),-sin(z),0;sin(z),cos(z),0;0,0,1]
```

```
A =
```

```
0.3420201 -0.9396926 0.  
0.9396926 0.3420201 0.  
0.      0.      1.
```

```
--> B=[cos(y),0,sin(y);0,1,0;-sin(y),0,cos(y)]
```

```
B =
```

```
0.8660254 0. 0.5  
0.      1. 0.  
-0.5     0. 0.8660254
```

```
--> C=[1,0,0;0,cos(x),-sin(x);0,sin(x),cos(x)]
```

```
C =
```

```
1. 0. 0.  
0. 0. -1.  
0. 1. 0.
```

```
--> A*B*C
```

ans =

0.2961981	0.1710101	0.9396926
0.8137977	0.4698463	-0.3420201
-0.5	0.8660254	0.