
```
% ECE 4560 - Homework 9.2
```

```
% Caitlyn Caggia
```

```
g1 = SE3([-5;6;-1] , [1 0 0;0 0 -1;0 1 0]);  
g2 = SE3([ 0;0; 0] , [ 1/sqrt(2) 0 1/sqrt(2);0 1 0;-1/sqrt(2) 0 1/  
sqrt(2)]);  
adjoint(g1, g2)
```

```
g = SE3([1;0;-1],[sqrt(2)/2 0 -sqrt(2)/2 ; 0 1 0; sqrt(2)/2 0  
sqrt(2)/2]);  
xi = [0; 1; 0; pi/10; 0; pi/12];  
adjoint(g, xi)
```

```
xi = [1; 0; 1; 0; pi/6; -pi/12];  
adjoint(g, xi)
```

```
    0.7071    -0.7071         0    2.7782  
    0.7071     0.7071         0    5.2929  
         0         0    1.0000         0  
         0         0         0    1.0000
```

```
ans =
```

```
    0  
    0.5557  
    0  
    0.0370  
    0  
    0.4073
```

```
ans =
```

```
    0.5236  
    0  
    1.9378  
    0.1851  
    0.5236  
   -0.1851
```

```
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