
```
% ECE 4560 - Homework 5, Problem 2
% Caitlyn Caggia
```

```
gOA = SE2([5 2], pi/3);
gOB = SE2([2 7], pi/2);
gBC = SE2([0 3], -pi/6);
```

```
%part a
zA1 = SE2([2 5], -pi/12);
gBA = inv(gOB) * gOA;
zB1 = adjoint(zA1,inv(gBA))
ZO1 = adjoint(zA1,inv(gOA))
```

```
%part b
zC2 = SE2([1 -4], pi/15);
zB2 = adjoint(zC2,inv(gBC))
gOC = gOB * gBC;
zO2 = adjoint(zC2,inv(gOC))
```

```
zB1 =
```

```
    0.9659    0.2588   -1.9910
   -0.2588    0.9659    6.2363
         0         0    1.0000
```

```
ZO1 =
```

```
    0.9659    0.2588    4.3240
   -0.2588    0.9659   -0.2139
         0         0    1.0000
```

```
zB2 =
```

```
    0.9781   -0.2079    2.3586
    0.2079    0.9781   -3.3327
         0         0    1.0000
```

```
zO2 =
```

```
    0.9781   -0.2079   -3.9934
    0.2079    0.9781   -1.8050
         0         0    1.0000
```

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