```
% ECE 4560 - Homework 6, Problem 1
% Caitlyn Caggia

za = [1; -1; 1/4];
zb = [1; -1; 0];
gi = SE2([0; 0.5], pi/6);
tau = pi;
J = [0 1; -1 0];

%part a
disp('part a:')
parta = SE2.exp(za,tau);
gfa = gi .* parta

%part b
disp('part b:')
partb = SE2.exp(zb, tau);
gfb = gi .* partb
```

```
part a:

gfa =

    0.2588   -0.9659    4.2925
    0.9659    0.2588    1.0651
         0         0    1.0000

part b:

gfb =

    0.8660   -0.5000    4.2915
    0.5000    0.8660   -0.6499
         0         0    1.0000
```

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