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% ECE 4560 - Homework 6, Problem 4
% Caitlyn Caggia

gi = SE3([3; 5; 2], [0 1 0; 0 0 1; 1 0 0]);
gf = SE3([6; -3; 9], [sqrt(3)/2 1/4 sqrt(3)/4;
                    1/2 -sqrt(3)/4 -3/4;
                    0 sqrt(3)/2 -1/2]);

tau = 1;

g = inv(gi) * gf;
xi = log(g, tau)

expXi = SE3.exp(xi, tau);
disp('gi*expXi')
exp = gi * expXi

xi =

    58.9409
    63.9450
   -3.5814
   -0.4330
   -0.5000
    0.8660

gi*expXi
    0.8025    0.5758    0.1563    82.1707
    0.2371   -0.5482    0.8021   -5.3489
    0.5476   -0.6066   -0.5764    29.8246
         0         0         0     1.0000

```

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