```matlab
% AEM 4501 Homework 4 Problem 3
a = 1.5;
b = 1;
P = 1000;
MatsSets(1).E = 70e9;
MatsSets(1).A = 7.065e-4;
MatsSets(1).rho = 8.1;
% rho is mass density/length and is used by dynamics code
PD.N = 4;
PD.NodePos = [0, 0, 0;
              a, 0, 0;
              0, b, 0;
              a, b, 0];
PD.NE = 6; % Change this depending on the number of members
% change PD.ElmConnect and PD.ElmMats as well
PD.ElmConnect = [1, 2;
                 1, 3;
                 3, 4;
                 2, 4;
                 1, 4;
                 2, 3];
PD.NM = 1;
PD.MatsSets = MatsSets;
PD.ElmMats = [1;
              1;
              1;
              1;
              1;
              1];

PD.BCType = [1, 1, 1;
             0, 1, 1;
             0, 0, 1;
             0, 0, 1];
% Note z displacement fixed for all since we're in 2D
PD.BCVal = [0, 0, 0;
            0, 0, 0;
            0, 0, 0;
            P, 0, 0];
PDans = PD_truss_static(PD);
PlotTruss(PDans,1000,'y','y');

% loop for the forces and stresses in all the elements
for i = 1:PD.NE
    force = PDans.ElmForce(i); %(unit Newton for force)

    disp(['Force in element ', num2str(i), ':', num2str(force)]);

    stress = PDans.ElmStress(i); %(unit Pascal for Stress)
    disp(['Stress in element ', num2str(i), ':', num2str(stress)]);
```

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    disp(' ');
end
```

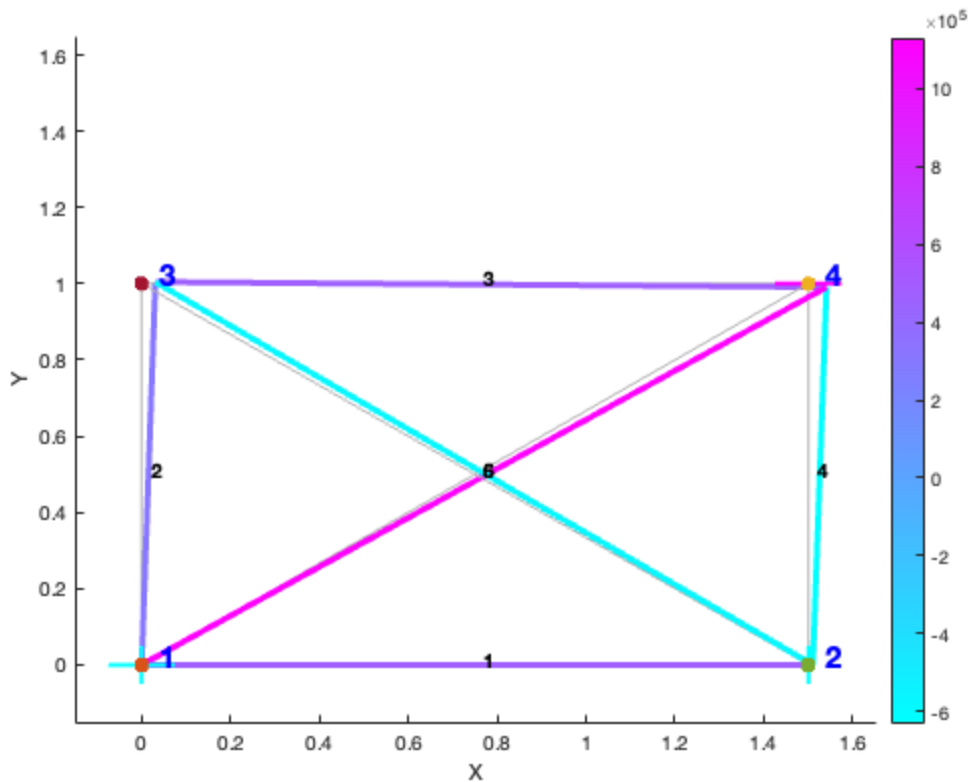*Force in element 1:335.1088*
Stress in element 1:474322.431

Force in element 2:223.4059
Stress in element 2:316214.954

Force in element 3:335.1088
Stress in element 3:474322.431

Force in element 4:-443.2608
Stress in element 4:-627403.824

Force in element 5:799.0998
Stress in element 5:1131068.329

Force in element 6:-402.7507
Stress in element 6:-570064.6153

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