```
%Homework 4/12: Statics
%Given values of theta
theta1=45;
theta2=65;
%X and Y component of applied force
F1x=1000*cosd(30);
Fly=1000*sind(30);
%All 3 forces separated into x and y components yields 6 equations.
%all forces at each node is 0
A=[-\cos d(theta1), \cos d(theta2), 0 0 0 0; -\sin d(theta1), \sin d(theta2),
 0 0 0 0; ...
    cosd(theta1), 0 1 1 0 0; sind(theta1), 0 0 0 1 0;...
    0, -cosd(theta2), -1 0 0 0; 0, sind(theta2), 0 0 0 1];
%The sum of the x components of F1 and F2 at node 1 must be equal to
%negative F1x, since they must counteract the applied force. The same
%principle applies to the y component
B=[-F1x; -F1y; 0; 0; 0; 0];
%Using left division to solve
x=A\setminus B
x =
   1.0e+03 *
    1.6770
    0.7567
   -0.3198
   -0.8660
   -1.1858
   -0.6858
```

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