```
function Assignment_2_9
clear all
x0=[0.1 0.1 0.1 0.1 0.1 0.1]'; %initial guess
x = fsolve(@myfun,x0);
vpa(x,4)
end
function F=myfun(x)
1=[100,100,200,75,100,75,50];
F=[x(1)-x(2)-x(6); % q1 = q2+q6]
x(1)-x(7);
                  % q1 = q7
x(2)-x(3)-x(4);
                 % q2 = q3 + q4
x(2)-x(5);
                 % q5 = q3 + q4 = q2
1(3)*x(3)^2-1(4)*x(4)^2;
1(2)*x(2)^2+1(4)*x(4)^2+1(5)*x(5)^2-1(6)*x(6)^2;
1(1)*x(1)^2+1(6)*x(6)^2+1(7)*x(7)^2-5.2*10^5*pi^2*0.2^5/8/0.02/998;
end
```

Equation solved.

fsolve completed because the vector of function values is near zero as measured by the default value of the function tolerance, and the problem appears regular as measured by the gradient.

```
ans =

0.2388
0.08694
0.03302
0.05392
0.08694
0.1519
0.2388
```

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