

Editor - C:\Users\Rochelle Abalus\Documents\2ECEA\Matlab\Final\Prob2.m

prob1.m
Prob2.m
Prob3.m
Prob4.m
Prob5.m
+

```

1 %'Input matrix in standard MATLAB format: '
2 Xa=input('Xa coordinate ');
3 Ya=input('Ya coordinate ');
4 Xb=input('Xb coordinate ');
5 Yb=input('Yb coordinate ');
6 Xc=input('Xc coordinate ');
7 Yc=input('Yc coordinate ');
8
9 %Point A-B
10 syms x y
11 if (Xb-Xa)==0
12     %Equation
13     f1=((Xa + Xb)/2)-x;
14     NLM=0;
15
16 elseif (Xb-Xa)~=0
17     NLM= (Xa-Xb)/(Yb-Ya);
18     b=((Ya+Yb)/2)-((Xa-Xb)/(Yb-Ya))*((Xa+Xb)/2);
19     %equation
20     f1=NLM*x + b - y;
21 end
22 %Point B-C
23 if (Xc-Xb)==0
24     %equation
25     f2=((Xc-Xb)/2)-x;
26     NLM=0;
27
28 elseif (Xc-Xb)~=0
29     NLM= (Xb-Xc)/(Yc-Yb);
30     b=((Yb+Yc)/2)-((Xb-Xc)/(Yc-Yb))*((Xb+Xc)/2);
31     %equation

```

Workspace

Command Window

```

>> Prob2
Xa coordinate :2
Ya coordinate :0
Xb coordinate :0
Yb coordinate :2
Xc coordinate :-2
Yc coordinate :0

Center =

[ 0, 0]

RADIUS =

2

VECTOR =

[ 0, 0, -4]

```

fx >> |