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2ECE-A

**Problem 2 MATLAB:**

function [D,E,F,h,k,r]=Problem2(x1,y1,x2,y2,x3,y3)

syms D E F

Eq1=((x1)\*D)+((y1)\*E)+F+(x1^2)+(y1^2)==0;

Eq2=((x2)\*D)+((y2)\*E)+F+(x2^2)+(y2^2)==0;

Eq3=((x3)\*D)+((y3)\*E)+F+(x3^2)+(y3^2)==0;

Solve = solve([Eq1, Eq2, Eq3], [D, E, F]);

D=Solve.D;

E=Solve.E;

F=Solve.F;

h=-D/2;

k=-E/2;

r=sqrt(-F+((D^2)/4)+((E^2)/4));



