GROUP 3

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**MACHINE PROBLEM 2**

**MATLAB**

%MP # 2 \_ 2ECE-A \_ GROUP 3: PEREZ, PIOLO - SERGIO, RICHARD

%COPY TO COMMAND WINDOW

x = [ 4 , 5 , -7 ]

y = [ 8 , -6 , 3 ]

D = (((x(1)^2 - x(3)^2) \* (x(1)-x(2)) + (y(1)^2 - y(3)^2) \* (x(1)-x(2)) + (x(2)^2 - x(1)^2) \* (x(1)-x(3)) + (y(2)^2 - y(1)^2) \* (x(1)-x(3))) / (2 \* ((y(3)-y(1)) \* (x(1)-x(2)) - (y(2)-y(1)) \* (x(1)-x(3)))))

E = (((x(1)^2 - x(3)^2) \* (y(1)-y(2)) + (y(1)^2 - y(3)^2) \* (y(1)-y(2)) + (x(2)^2 - x(1)^2) \* (y(1)-y(3)) + (x(1)^2 - x(1)^2) \* (y(1)-y(3))) / (2 \* ((x(3)-x(1)) \* (y(1)-y(2)) - (x(2)-x(1)) \* (y(1)-y(3)))))

F = (-x(1)^2 - y(1)^2 - 2 \* E \* x(1) - 2 \* D \* y(1))

h = -E

k = -D

r = round(sqrt(h^2+k^2),5)

