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**Department: Electricical / Electronics Engineering**

**Course code: ENG281 ( Engineering maths 1)**

***MATLAB Assignment:***

1. commandwindow

clc

clear

A = [2,3,7,9,4;3,7,9,12,5;4,8,5,6,9;5,9,2,4,5;6,2,3,7,8]

Samuel = det (A)

Samuel = transpose (A)

R = inv (A)

B = [0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]

Q = [4;2;6;4]

P = inv (B)\*Q

2. A =

2 3 7 9 4

3 7 9 12 5

4 8 5 6 9

5 9 2 4 5

6 2 3 7 8

Samuel =

-765.0000

Samuel =

2 3 4 5 6

3 7 8 9 2

7 9 5 2 3

9 12 6 4 7

4 5 9 5 8

R =

1.8915 -1.4026 -0.3124 0.7843 -0.2078

-0.4379 0.3268 0.0523 -0.0392 -0.0196

2.5725 -1.8392 -0.0863 0.7647 -0.5176

-1.8876 1.4654 0.0105 -0.6078 0.3961

-0.6222 0.3778 0.2444 -0.3333 0.1333

3. A =

0 10 4 -2

-3 -17 1 2

1 1 1 0

8 -34 16 -10

Q =

4

2

6

4

P =

2.5714

0.2857

3.1429

5.7143