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**DEPARTMENT: MECHANICAL ENGINEERING**

**MATRIC NO: 16/ENG06/013**

**COURSE CODE: ENG281**

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]

 VICTOR = det (A)

 VICTOR = 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

VICTOR =

 -765.0000

VICTOR =

 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