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Department: Mechatronics Engineering

Engineering Maths Assignment 3

1. For Gauss elimination



1. A= 2 2 -4 2 6 -2

4 -2 2 4 2 -6

2 6 -6 -2 4 2

10 4 -2 -2 4 2

-6 -2 4 6 2 6

8 6 2 -12 -6 -4

 B= 12

 60

 -45

 -9

 48

 -81

 A.T=B

 T=BA-1

T= 1.5

 -3

 4.5

 6

 3

 -1.5

1. 
2. A= 2 2 -4 2 6 -2

4 -2 2 4 2 -6

2 6 -6 -2 4 2

10 4 -2 -2 4 2

-6 -2 4 6 2 6

8 6 2 -12 -6 -4

 B= 12

 60

 -45

 -9

 48

 -81

 A-1= -0.151 0.077 0.042 0.099 -0.053 -0.049

 -0.275 0.272 0.406 -0.108 0.117 0.054

 0.165 -0.019 -0.131 -1.174x10-3 0.164 0.126

 -0.458 0.343 0.399 -0.041 1.174x10-3 -0.104

 0.546 -0.268 -0.373 0.046 0.092 0.102

 -0.077 -0.073 -9.39x10-3 0.089 0.012 -0.045

A-1.T=B

T=(A-1)-1.B

T= 756

 384

702

498

-816

510