NAME:

STUDENT NUMBER:

Please indicate your answers by entering the option ((i), (ii), (iii) or (iv)) where asked. You should append the completed document as a pdf with your type written worked solutions and upload to Blackboard by Friday 22nd of February 2019.

Q 2.31

Part (a):

(i) 4
(ii) 13
(iii) 26
(iv) 18

Your Answer: (ii)

Part (b):

(i)   0
(ii)   12
(iii)   7
(iv)   4

Your Answer: (i)

Q 3.2

Part (a):

    (i)   0.1241
    (ii)   **0.8125**
    (iii)   0.074995
    (iv)   0.003462

Your Answer: (ii)

Part (b):

    (i)   0.72481
    (ii)   **0.85261**
    (iii)   0.62849
    (iv)   0.17238

Your Answer: (ii)

Part (c):

    (i)   0.65782
    (ii)   0.59371
    (iii)   0.45802
    (iv)   0.85261

Your Answer: (ii)

Q 4.24

(i)   Inverse(a)=

-0.7143	**0.0**	**1.4286**
0.2571	**0.1000**	**0.2857**
-0.2286	**-0.2000**	**0.8571**

Inverse(b)=

1.6667	**2.8889**	**-2.2222**	**1.0000**
0.0	**0.3333**	**-0.3333**	**0.0**
-0.3333	**-0.4444**	**0.1111**	**0.0**
1.5000	**2.0000**	**-1.5000**	**0.5000**

(ii)

Inverse(a)=

0.7243	0.0	1.3286
1.2571	0.1000	0.2757
-0.2386	-0.2010	0.9571

Inverse(b)=

1.6677	2.9889	3.2222	1.01700
0.3433	-0.3433	0.3333	0.00371
-0.3433	-0.2879	0.2111	0.0
1.2400	2.0120	-1.5783	0.5600

(iii)

Inverse(a)=

0.7143	0.003	2.3276
1.2671	0.1100	0.3759
-0.2486	-0.2110	0.9771

Inverse(b)=

1.6877	3.9789	3.2002	2.01800
0.3533	-0.4433	0.3333	0.02371
-0.3443	-0.2999	0.3121	0.0382
1.2420	3.0130	-1.5733	0.5610

(iv)

Inverse(a)=

0.8343	1.01	1.3336
2.2572	0.1003	0.3857
-0.2486	-0.2110	0.9671

Inverse(b)=

1.6777	4.9889	3.2232	1.11700
0.3443	-0.3443	0.3233	0.07371
-0.3443	-0.2979	0.3211	0.07800
1.2480	2.1220	-1.5883	0.5621

Your Answer: (i)