

**Q 2.31**

Part (a):

**Answer: (ii) 13 (12 marks)**

Part (b):

**Answer: (i) 0 (12 marks)****Q 3.2**

Part (a):

**Answer: (ii) 0.8125 (14 marks)**

Part (b):

**Answer: (ii) 0.85261 (14 marks)**

Part (c):

**Answer: (iv) 0.85261 (14 marks)****Q 4.24****Answer:(i)**

Inverse(a)=

-0.7143	0.0	1.4286	
0.2571	0.1000	0.2857	
-0.2286	-0.2000	0.8571	<b>(17 marks)</b>

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	<b>(17 marks)</b>

**Total: 100 marks.**