MAU11S02 Group A2 Quiz 03 3pm 13/2/19 ANSWERS

Rules and procedures.

1. Answers must be handed up at the end of the tutorial, no other time. 2. Attempt 3 questions. Only your first three answers will be marked. 3. Each question carries 20 marks, so the maximum quiz mark is 60. 4. Marked quizzes will be returned, and answers published, the following week. 5. If a particular method of solution is stipulated, you get no marks if you don't use it. 6. The (9) quizzes will contribute 20% to your overall mark. 7. You are allowed to collaborate and compare answers during the tutorial.

Answer 1.

Answer 2.

(2,1) minor -8, (2,2) minor 4

Answer 3.

(2,3) minor 6, (2,4) minor -6

Determinant
$$-(-1)(-8) + (-3)(4) - (2)(6) + (-4)(-6)$$

$$= -8 -12 -12 + 24 = -8.$$

-2 -1 2 1	-2 -3 5 1	4 2 -4 -1	-8 -4 10 3	
1	1	1	3	
-2	-2	4	-8	
0	-2	0	0	
0	3	0	2	
0	0	1	-1	
-2	-2	4	-8	
0	-2	0	0	
0	0	0	2	swap
0	0	1	-1	swap
-2	-2	4	-8	
0	-2	0	0	
0	0	1	-1	
0	0	0	2	

Determinant 8; 1 swap, original determinant -8;

Answer 5.

The first 3 are linearly dependent, and the fourth depends on them.