Name: Student ID:

Quiz 6

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) If

	[1	1	$-2 \\ 1$	1	0]	
	2	3 0 0 0	1	0	0	
A =	0	0	3	-2	1	
	0	0	2	-5	3	
	0	0	1 3 2 0	$-2 \\ -5 \\ 0$	2	

then compute det(A) using elementary operations.

Question 2. (5 marks) If

$$A = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}, B = \begin{bmatrix} -c & b+c & 3a \\ -f & e+f & 3d \\ -i & h+i & 3g \end{bmatrix}$$

and $det(A) = \sqrt{2}$ then compute det(B).