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Name:	
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Quiz 5

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) §1.5 #21 Use the inversion algorithm to find the inverse of the given matrix, if the inverse exists.

$$\begin{bmatrix} 2 & -4 & 0 & 0 \\ 1 & 2 & 12 & 0 \\ 0 & 0 & 2 & 0 \\ 0 & -1 & -4 & -5 \end{bmatrix}$$

Question 2. (5 marks) $\S 1.5 \# 42$ Prove that if A is an invertible matrix and B is row equivalent to A, then B is also invertible.