Homework 2 F17CC Introduction to university mathematics

This homework will contribute 10% to your final course grade. Write your solutions on the question sheet and staple on front a signed and completed coursework submission form. These forms can be found in the corridor joining CM and EM on the first-floor — ask in the School Office if you cannot find them. Your solutions should be posted in the Mathematics postbox between CM and EM by 3.30 pm Friday 10th November. Late work will not be marked and you will automatically receive zero. I am not joking. Don't even think about it! You will be marked on the clarity of your solutions and the accuracy of your reasoning.

In these questions, let

$$A = \left(\begin{array}{ccc} 0 & 0 & 1 \\ 0 & -1 & 0 \\ 2 & 2 & 1 \end{array}\right).$$

1. Calculate $A^3 - 3A$. [2 marks]

