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Instructor: Dr. R.A.G. Seely
Test 3 (version A)

## Maths \& Logic (360-124)

Do question 1 on this sheet (be sure to put your name on it!), and the rest of the test (on the next page) in the workbook provided.

## (Marks)

(6) 1. Given the following derivations, show that each is correct by filling in correct justifications (names of rules and line numbers, as required).
(Technical point: in this and in question 2, you may assume there are no variables other than those explicitly shown.)

1
2

7. Nietzsche famously said: "There are no facts, only interpretations". In contrast, in his essay On Bullshit, Harry Frankfurt says: "Our natures are, indeed, elusively insubstantial-notoriously less stable and less inherent than the natures of other things. And insofar as this is the case, sincerity itself is bullshit." It could be claimed that this is one of the key points Frankfurt has in mind when he says "bullshit is a greater enemy of the truth than lies are". Discuss this claim. Explain what are the issues involved; have they limitations? What else do you think is relevant to the discussion. Your essay should be long enough to do justice to the problem - and to the amount of marks assigned (more than usual!).
((4)) Bonus: In the same essay, Frankfurt also says: "The problem of understanding why our attitude toward bullshit is generally more benign than our attitude toward lying is an important one, which I shall leave as an exercise for the reader." What "solution" to this problem do you imagine he might have had in mind? Why is this an "important" problem? How would you "solve" it?
N.B.: Please answer the questions asked-don't just recycle an answer to a different question you might have prepared! Your mark will depend on this.
(Total: 40)

