Your Name A0000000 MST124 TMA00

Dummy TMA for MST124

This if for practice at producing electronic maths eTMAs and does not count in any way to your final grade. I will mark it and return it so that you have some feedback on how to layout and produce eTMAs. This document should be handwritten and scanned as a **single pdf.** Please write your answers over at least two pages and submit as a single document. There is information about how to generate a single pdf file at https://learn2.open.ac.uk/mod/oucontent/view.php?id=1187831&section=4.2

Please attempt all of these questions, but ask if you are struggling to work out how to do any of them. I can give as much help as you need.

Please include your name, PI number, module code and TMA number at the top of each page, an example is given at the top of this page.

For the actual TMAs you will need to start a new page for each question, but for this practice one a few lines between each question is enough.

Thank you

Questions

1. Write $x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$

2. Write $xy \times xz = x^2yz$

3. Draw a quick sketch of $y = x^2 + 1$. This sketch can be hand drawn (not plotted and not using graph paper) or it can be done using a computer drawing package, but must not be computer generated using a graphing package. Your ability to create a rough sketch and include it is being tested, not your artistic ability!

4. Include a screenshot of the study calendar from the module website.

5. Solve the following equation for x, showing your workings as you would in a TMA.

$$\frac{x}{5} - (1 + x) = \frac{2}{3}$$