

Practical 1

MATH 2134K: *Introduction to MATLAB Programming*

Question: Let $x = A \times 1 + B \times 0.1$ where A is the first numeral of your SAP ID while B is the last numeral of your SAP ID and let $y = |C - 5|$ where C is the first numeral of your enrolment number.

Find the answer for the following expressions, by coding with the appropriate MATLAB commands and inbuilt mathematical functions:

1. $\frac{1}{\sqrt{2\pi}} e^{-\frac{x^y/2}{7}}$

2. $\frac{\sqrt[y]{2+\cos 3x}}{|\sin yx|}$

3. $\sin^y \frac{\pi x}{y}$

4. $\frac{e^{\cos yx}}{\sqrt{x^y-3}}$

5. $x^y \arctan(x+y) - \frac{1}{y} \ln(1+x^y)$