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Second Semester Examination
2017/2018 Academic Session
May/June 2018

EUM114 – Advanced Engineering Calculus
(Kalkulus Kejuruteraan Lanjutan)

Duration : 3 hours
(Masa : 3 jam)

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1. (a) Consider the following functions with their interval.

\[ f(x) = \begin{cases} 
  x + 1, & -\frac{\pi}{2} < x < \frac{\pi}{2} \\
  0, & \frac{\pi}{2} < x < \frac{3\pi}{2} 
\end{cases} \]

(i) Sketch a graph for the above functions.

Lakarkan graf untuk fungsi-fungsi di atas.

(3 marks/markah)

(ii) Determine the Fourier series expansion of \( f(x) \).

Tentukan kembangan siri Fourier \( f(x) \).

(10 marks/markah)
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