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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)

Please ensure that this examination paper consists of EIGHT (8) pages before you begin the examination.
1. (a) Consider the following functions with their interval.

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

(i) Sketch a graph for the above functions.

\[\text{Lakarkan graf untuk fungsi-fungsi di atas.}\]

(3 marks/markah)

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

\[\text{Tentukan kembangan siri Fourier } f(x) \text{.}\]

(10 marks/markah)
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