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

Pertimbangkan fungsi-fungsi berikut dengan selang antara mereka.

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

- (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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