

## Further Engineering Mathematics 2020/21: Assignment 1

1. Let  $f(x)$  be a function of period  $2\pi$  such that

$$f(x) = \begin{cases} x, & 0 < x < \pi, \\ \pi, & \pi < x < 2\pi, \end{cases}$$
$$f(x) = f(x + 2\pi).$$

(a) Sketch a graph of  $f(x)$  in the interval  $-4\pi < x < 4\pi$ . **[3 marks]**

(b) Show that the Fourier series for  $f(x)$  in the interval  $0 < x < 2\pi$  is

$$F(x) = \frac{3\pi}{4} - \frac{2}{\pi} \left[ \cos(x) + \frac{1}{3^2} \cos(3x) + \frac{1}{5^2} \cos(5x) + \dots \right]$$
$$- \left[ \sin(x) + \frac{1}{2} \sin(2x) + \frac{1}{3} \sin(3x) + \dots \right].$$

**[14 marks]**

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# Further Engineering Mathematics

**DP Hallahan**



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