

Solution

Q1)

$$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$$

$$u(x, t) = (C_1 \cos(px) + C_2 \sin(px))e^{-p^2 x^2 t}$$

$$= (C_2 \cos(px) + C_3 \sin(px))e^{-p^2 x^2 t}$$

$$\text{As given } u(0, t) = 0 = C_1 e^{-p^2 x^2 t}$$

$$\Rightarrow C_1 = 0$$

$$u(x, t) = C_2 \sin(px) e^{-p^2 x^2 t}$$

$$\sin(p\pi) = 0$$

$$p\pi = n\pi$$

$$p = n$$

$$u(x, t) = b_n e^{-n^2 t} \sin(nx)$$

$$\text{where } b_n = C_2$$

$$u(x, t) = \sum b_n e^{-n^2 t} \sin(nx)$$

$$= \sum_{n=1}^{\infty} b_n \sin(nx)$$

Here,

$$b_n = \frac{2}{\pi} \int_0^{\pi} f(x) \sin(nx) dx$$

$$= \frac{2}{\pi} \left[3 \left(\frac{\sin(5-n)x}{2(5-n)} - \frac{\sin((n+5)x)}{2(n+5)} \right) - 11 \left(\frac{\sin(4-n)x}{2(4-n)} - \frac{\sin(n+4)x}{2(n+4)} \right) \right] \text{ at limits of } \pi \wedge 0$$

$$= \frac{2}{\pi} \left[3 \left(\frac{\sin(5-n)\pi}{2(5-n)} - \frac{\sin((n+5)\pi)}{2(n+5)} \right) - 11 \left(\frac{\sin(4-n)\pi}{2(4-n)} - \frac{\sin(n+4)\pi}{2(n+4)} \right) \right]$$

$$b_n = \frac{6}{\pi [2(5-n) + 2(n+5)]} - \frac{22}{\pi [2(4-n) + 2(n+4)]}$$

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