

Given,

$$f(x) = \begin{cases} \frac{a \cos x + b \sin x}{x^2} & \text{if } 1 < x \leq 2 \\ 0 & \text{otherwise.} \end{cases}$$

$$E(x) = 1.286$$

We know that

$$E(x) = \int_{-\infty}^{\infty} x f(x) dx$$

$$1.286 = \int_1^2 x \times \left[\frac{a \cos x + b \sin x}{x^2} \right] dx$$

$$1.286 = \int_1^2 \frac{a \cos x}{x} dx + \int_1^2 \frac{a \sin x}{x} dx$$

(using calculator)

$$1.286 = a \times (0.0856) + b (0.6593)$$

$$0.0856 a + 0.6593 b = 1.286 \quad \text{--- (i)}$$

We know that

$$\int_{-\infty}^{\infty} f(x) dx = 1$$

$$\int_1^2 \frac{a \cos x + b \sin x}{x^2} dx = 1$$

$$a \int_1^2 \frac{\cos x}{x^2} dx + \int_1^2 \frac{\sin x}{x^2} dx = 1$$

(using calculator)

$$a \times (0.089) + b (0.4724) = 1$$

$$0.089 a + 0.4724 b = 1 \quad \text{--- (ii)}$$

Solving equation (i) and (ii)

$$a = 2.8395$$

$$b = 1.5818$$

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