

CALCULUS 3

Solutions for Final Exam

Question 1. Apply z -transform to both sides of the DE

$$y_{k+2} - 5y_{k+1} + 4y_k = \frac{1}{5^k}$$

use the advancing property to get

$$(z^2 Y(z) - z^2 y_0 - z y_1) - 5(z Y(z) - z y_0) + 4Y(z) = \frac{z}{z - 1/5} = \frac{5z}{5z - 1}$$

Use initial conditions $y_0 = -1, y_1 = 0$, we obtain

$$(z^2 Y(z) + z^2) - 5(z Y(z) + z) + 4Y(z) = \frac{5z}{5z - 1}$$

Re-arrange terms to get

$$(z^2 - 5z + 4)Y(z) = \frac{5z}{5z - 1} - z^2 + 5z = \frac{-5z^2 + 26z^2}{5z - 1}$$

This yields

$$\begin{aligned} \frac{Y(z)}{z} &= \frac{-5z^2 + 26z}{(5z - 1)(z^2 - 5z + 4)} = \frac{-5z^2 + 26z}{(5z - 1)(z - 4)(z - 1)} \\ &= \frac{(8/19)}{z - 4} - \frac{(7/4)}{z - 1} + \frac{(25/76)}{z - 1/5}. \end{aligned}$$

Thus

$$Y(z) = \frac{(8/19)z}{z - 4} - \frac{(7/4)z}{z - 1} + \frac{(25/76)z}{z - 1/5}.$$

Taking inverse z -transform gives us

$$\{y_k\} = \left\{ \frac{8}{19} 4^k - \frac{7}{4} + \frac{25}{76} \frac{1}{5^k} \right\}, \quad k \geq 0.$$

Question 2. The function

$$f(t) = 2t \quad (-1 < t < 1), \quad f(t) = f(t + 2)$$

is a periodic odd function with $T = 2$, so $a_n = 0$ for all n . $\omega = 2\pi/T = \pi$.

$$\begin{aligned} b_n &= \frac{4}{2} \int_0^1 f(t) \sin n\omega t dt = 2 \int_0^1 2t \sin(n\pi t) dt \\ &= 4 \int_0^1 \frac{-1}{n\pi} t d \cos n\pi t \\ &= \frac{-4}{n\pi} t \cos n\pi t \Big|_0^1 + \int_0^1 \frac{4}{n\pi} \cos n\pi t dt \\ &= \frac{4}{n\pi} (0 - (-1)^n) + \frac{4}{(n\pi)^2} \sin n\pi t \Big|_0^1 \\ &= \frac{4}{n\pi} (-1)^{n+1}, \quad n \geq 1. \end{aligned}$$

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