

KAS103T-KAS103TH
ENGINEERING MATHEMATICS-I
Morning Shift, March 03, 2025

Correction:

Q4(a)

Use Leibnitz theorem to construct the following equation:

$$(1 - x^2)y_{n+2} - (2n + 1)xy_{n+1} - (n^2 - a^2)y_n = 0,$$

if $y = \sin(a \sin^{-1} x)$.

Also calculate the value of $(y_n)_0$.

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