



Core Mathematics C34(GCE)

Practice Question 10

Standard A[★]

Mr. S. V. Swarnaraja

(Team Leader, Marking Examiner & Author)

www.swanash.com

**CRITICAL THINKING IS THE KEY TO SOLVE REAL WORLD PROBLEMS.
CHILDREN MUST BE TAUGHT HOW TO THINK, NOT WHAT TO THINK.
A GREAT TEACHER WILL BE CREATING STUDENTS TO DO NEW THINGS
THROUGH CRITICAL THINKING, NOT SIMPLY REPEATING WHAT OTHER
GENERATIONS HAVE DONE BEFORE. WE DO NOT NEED ANOTHER
ALBERT EINSTEIN OR ISAAC NEWTON.... WE NEED A PERSON BETTER
THAN THEM.**

MR.S.V. SWARNARAJA

Integration

Question:

Find $\int \frac{1}{x^9 - x} dx$

(6 marks)

No part of this publication may be reproduced in any form without the prior written permission from **MR.S.V.SWARNARAJA**, (Team Leader, Marking Examiner & Author), email: swa@swanash.com



Golden Rules

$$\int x^n dx = \frac{x^{n+1}}{n+1} + C$$

$$\int e^x dx = e^x + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \cos x dx = \sin x + C$$

$$\int \sec x \tan x dx = \sec x + C$$

$$\int \sec^2 x dx = \tan x + C$$

$$\int \sin x dx = -\cos x + C$$

$$\int \csc x \cot x dx = -\csc x + C$$

$$\int \csc^2 x dx = -\cot x + C$$

Traditional or Online classes

Mr. S.V. Swarnaraja

(Team Leader, Marking Examiner & Author)

Mobile: +94 777 304755

email: swa@swanash.com

www.swanash.com