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6

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Section: J01

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PA#1A- §Prerequisite: Integral Calculus and Precalculus

$$\int \sin^3 t \cos t \, dt$$

all steps
clear

u-sub

$$u = \sin t$$

$$du = \cos t \, dt$$

$$\int \sin^3 t \cos t \, dt = \int u^3 \, du$$

$$= \frac{1}{4} u^4 + C$$

proper use
of equality

$$= \frac{1}{4} \sin^4 t + C$$

answer boxed
in terms of t

A

2

accuracy

J

2

justification

N

2

notation

G2:

A

J

N

G3:

A

J

N