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CALCULUS FOR ENGINEERS
MATH 1110

Tutorial No. 9 Solution

Integral

1-

Find $\int \cos^2 ax \, dx$.

2-

Find $\int \sin^2 ax \, dx$.

3- Find

$\int \sin x \cos^2 x \, dx$.

4- Find

$\int \sin^4 x \cos^5 x \, dx$.

5- Find

$\int \cos^6 x \, dx$.

6- Find

$\int \cos^4 x \sin^2 x \, dx$.

7-

$\int \tan^2 \frac{x}{2} \, dx$.

8-

$$\int \tan^4 x \, dx.$$

9-

$$\int \sec^5 x \, dx.$$

10-

$$\int \tan^2 x \sec^4 x \, dx.$$

11-

$$\int \tan^3 x \sec^3 x \, dx.$$

12-

$$\int \tan^4 x \sec x \, dx.$$