

$$\int \left(\frac{\cot x}{\sin x} - \tan^2 x - \frac{\tan x}{\cos x} + \frac{2}{\cos^2 x} \right) dx$$

We can write it as

$$= \int (\cot x \operatorname{cosec} x - (\sec^2 x - 1) - \tan x \sec x + 2 \sec^2 x) dx$$

By integrating w.r.t x

$$= -\operatorname{cosec} x - \tan x + x - \sec x + 2 \tan x + c$$

On further calculation

$$= -\operatorname{cosec} x + \tan x + x - \sec x + c$$

9. (i) $\int \sec x (\sec x + \tan x) dx$

(ii) $\int \operatorname{cosec} x (\operatorname{cosec} x - \cot x) dx$

Solution:

(i) $\int \sec x (\sec x + \tan x) dx$

It can be written as

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

By integrating w.r.t x

$$= \tan x + \sec x + c$$

(ii) $\int \operatorname{cosec} x (\operatorname{cosec} x - \cot x) dx$

It can be written as

$$= \int \operatorname{cosec}^2 x - \operatorname{cosec} x \cot x dx$$

By integrating w.r.t x

$$= -\cot x + \operatorname{cosec} x + c$$

10.

i. $\int (\tan x + \cot x)^2 dx$

ii. $\int \left(\frac{1 + 2 \sin x}{\cos^2 x} \right) dx$

iii. $\int \left(\frac{3 \cos x + 4}{\sin^2 x} \right) dx$

Solution:

(i) $\int (\tan x + \cot x)^2 dx$

It can be written as

$$= \int (\tan^2 x + \cot^2 x + 2 \tan x \cot x) dx$$

So we get

$$= \int ([\sec^2 x - 1] + [\operatorname{cosec}^2 x - 1] + 2) dx$$

On further calculation

$$= \int (\sec^2 x + \operatorname{cosec}^2 x) dx$$

By integrating w.r.t x

$$= \tan x - \cot x + c$$

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Sebastian Brünink



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