

Formulae Provided on Quizzes/Exams

$$\int \tan x \, dx = \ln |\sec x| + C \quad \int \sec x \, dx = \ln |\sec x + \tan x| + C \quad \int \cos^2 x \, dx = \frac{1}{2}x + \frac{1}{4}\sin 2x + C$$

$$\sin 2x = 2 \sin x \cos x \quad \cos 2x = \cos^2 x - \sin^2 x \quad \tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$$

$$\sin^2 x = \frac{1 - \cos 2x}{2} \quad \cos^2 x = \frac{1 + \cos 2x}{2}$$
