

Solution of Quiz 05

$$\begin{aligned}\int \sin x \cos 7x \, dx &= \int \frac{1}{2} [\sin(x - 7x) + \sin(x + 7x)] dx \\ &= \frac{1}{2} \int [-\sin 6x + \sin 8x] dx \\ &= \frac{1}{12} \cos 6x - \frac{1}{16} \cos 8x + c\end{aligned}$$
