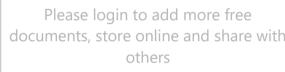


 $\frac{1}{2}\left(\int \cos 2x dx + \int \cos 8x dx\right) = \frac{1}{2}\left(\frac{\sin 2x}{2} + \frac{\sin x}{8}\right) =$

 $\frac{\sin 2x}{4} + \frac{\sin 8x}{16} + C$







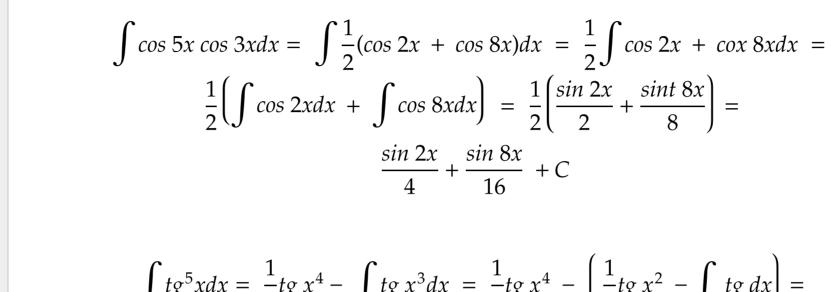
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$$\int tg^{5}xdx = \frac{1}{4}tg x^{4} - \int tg x^{3}dx = \frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} - \int tg dx\right) =$$

$$\frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} - \int \frac{\sin x}{\cos x} dx\right)$$

$$t = \cos x$$

$$\frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} - \int -\frac{1}{t} xdt\right) = \frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} + \int \frac{1}{t} xdt\right) =$$

$$\frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} + \ln|t|\right) = \frac{1}{4}tg x^{4} - \left(\frac{1}{2}tg x^{2} + \ln|\cos x|\right) = \frac{g x^{4}}{4} - \left(\frac{tg x^{2}}{2} + \ln|\cos x|\right) + C$$