

$$\text{iii)} \int 3 \sin 3x \, dx$$

$$u = 3x$$

$$\int 3 \sin u \, dx$$

$$\frac{du}{dx} = 3$$

$$\frac{du}{3} = dx$$

$$\int 3 \sin u \, \frac{du}{3}$$

$$\int \frac{3}{3} \sin u \, du$$

$$\frac{3}{3} (\sin u \, du)$$

$$\frac{3}{3} - \cos 3x + C$$

$$= \frac{3}{3} \cos 3x + C$$