$$Ex: \int 3e^{x} + \frac{1}{\sqrt{x}} - \sin(x)dx = \int 3e^{x} + x^{-h_{2}} - \sin(x)dx$$

$$= 3e^{x} + \frac{x^{1/2}}{1/2} - \cos(x) + C = 3e^{x} + 2\sqrt{x} + \cos(x) + C$$

$$E_{x}: \int \frac{4}{x} + \frac{x}{4} dx = 4 |\lambda| |x| + \frac{1/2 x^{2}}{4} + C$$

$$= \frac{4 |\lambda| |x| + \frac{1}{8} x^{2} + C}{4 |\lambda| |x| + \frac{1}{8} x^{2} + C}$$