

$$a) \int 2e^x dx = 2 \int e^x dx = 2e^x + C$$

$$b) \int e^{2x} dx = \frac{1}{2} \int e^{2x} \cdot \underbrace{2}_{\text{dérivée interne}} \cdot dx = \frac{1}{2} e^{2x} + C$$

$$c) \int (2 - e^x) dx = \int 2 dx - \int e^x dx \\ = 2x - e^x + C$$

$$d) \int e^{2-x} dx = - \int e^{2-x} \cdot \underbrace{(-1)}_{\text{dérivée interne}} \cdot dx \\ = -e^{2-x} + C$$