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### Ejercicio del 1 al 6

$$1) \int 6e^{3x} dx = 6 \int e^{3x} dx \Rightarrow u = 3x \Rightarrow du = 3 \cdot dx \Rightarrow dx = \frac{du}{3}$$

$$6 \int e^{3x} \frac{du}{3} = \frac{6}{3} \int e^{3x} du = 2 \int e^{3x} du = 2e^{3x} + C$$

$$2) \int e^{\frac{x}{m}} dx \Rightarrow u = \frac{x}{m} \Rightarrow du = \frac{dx}{m} \Rightarrow dx = m du$$

$$\int e^{\frac{x}{m}} m du = m \int e^{\frac{x}{m}} du = m e^{\frac{x}{m}} + C$$

$$3) \int \frac{dx}{e^x} = \int e^{-x} dx \Rightarrow u = -x \Rightarrow du = -dx \Rightarrow dx = -du$$

$$\int e^{-x} - du = - \int e^{-x} du = -e^{-x} = -\frac{1}{e^x} + C$$

$$4) \int 10^x dx = \frac{10^x}{\ln 10} + C$$

$$5) \int a^{my} dy \Rightarrow u = my \Rightarrow du = m \cdot dy \Rightarrow dy = \frac{du}{m}$$

$$\int a^{my} \frac{du}{m} = \frac{1}{m} \int a^{my} du = \frac{1}{m} \frac{a^{my}}{\ln a} = \frac{a^{my}}{m \ln a} + C$$

$$6) \int \frac{e^{\sqrt{x}} dx}{\sqrt{x}} \Rightarrow u = \sqrt{x} \Rightarrow du = \frac{dx}{2\sqrt{x}} \Rightarrow dx = 2\sqrt{x} \cdot du$$

$$\int \frac{e^{\sqrt{x}}}{\sqrt{x}} 2\sqrt{x} \cdot du = 2 \int e^{\sqrt{x}} du = 2e^{\sqrt{x}} + C$$

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