

EJERCICIO M28E3064:

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$$\int (x+1) \cdot 3^{x^2+2x+7} dx =$$

$$\boxed{\int a^{f(x)} \cdot f'(x) dx = \frac{a^{f(x)}}{\ln a} + C}$$

$$= \frac{1}{2} \int \underbrace{2}_{f'(x)} (x+1) \cdot 3^{\underbrace{x^2+2x+7}_{f(x)}} dx =$$

$$= \boxed{\frac{1}{2} \frac{3^{x^2+2x+7}}{\ln 3} + C}$$