$\bullet \int \dfrac{1}{(x-3)^3} \, dx$

$\int \dfrac{1}{(x-3)^3} \, dx = \int 1 \cdot (x-3)^{-3} \, dx = \circledast$

Siempre: $\quad \int x^n \, dx = \dfrac{x^{n+1}}{n+1} + G \qquad n \neq -1 \qquad \left[f(x) = x \right]$

Ahora: $\quad \int f(x)^n \cdot f'(x) = \dfrac{\left(f(x) \right)^{n+1}}{n+1} + G \qquad n \neq -1$

$\circledast = \dfrac{(x-3)^{-2}}{-2} + G = -\dfrac{1}{2} \cdot \dfrac{1}{(x-3)^2} + G$