

28
(129)

$$f(x) = \frac{1}{x} \rightarrow f' = -\frac{1}{x^2} \rightarrow f'' = \frac{1 \cdot 2}{x^3} \rightarrow f''' = \frac{-1 \cdot 2 \cdot 3}{x^4}$$

$$f^{(n)} = \frac{(-1)^n n!}{x^{n+1}}$$

129