$$y = \frac{x^5}{120}$$

$$y^{(1)} = \frac{dy}{dx} = \frac{x^4}{24}$$

$$y^{(2)} = \frac{d^2y}{dx^2} = \frac{x^3}{6}$$

$$y^{(3)} = \frac{d^3y}{dx^3} = \frac{x^2}{2}$$

$$y^{(4)} = \frac{d^4y}{dx^4} = x$$

$$y^{(5)} = \frac{d^5y}{dx^5} = 1$$

$$y^{(6)} = \frac{d^6y}{dx^6} = 0$$

Orden	1	2	3	4	5	6+
Derivación	$\frac{x^4}{24}$	$\frac{x^3}{6}$	$\frac{x^2}{2}$	x	1	0