For $x \in \mathbb{R}$ we define

$$\begin{array}{lll} f_0(x) := 0 & g_0(x) := 1 & h_0(x) := e \\ f_0(x) := 1 & g_0(x) := x & h_0(x) := e^x \\ f_0(x) := 2 & g_0(x) := x^2 & h_0(x) := e^{x^2} \end{array} \tag{1}$$

and similarly

$$f_k(x) := k \qquad g_k(x) := x^k \qquad h_0(x) := e^{x^k} \tag{2}$$

for $k \geq 3$. Equation (1) can be obtained by plugging in $k = 0$ in (2).