$$f(x) = x^{2}e^{-x} \qquad D_{f} = \mathbb{R}$$

$$f(x) = u \quad v \qquad u = x^{2} \qquad v = e^{-x} = e^{w}$$

$$v' = x^{2}e^{-x} \qquad v' = x^{2}e^{-x} = e^{-x}$$

$$f'(x) = u' \quad v + u \quad v' \qquad v' = x^{2}e^{-x} = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}) = e^{-x}$$

$$f'(x) = 2x \quad e^{-x} + x^{2}(-e^{-x}$$

Tableau de variations:

