$$f(x) = (ax + b) e^{-x}$$

$$A(-2; 0) \quad B(0; 2)$$

$$Si \quad A(x_{A}; y_{A}) \in C_{f} \quad w = f(x)$$

$$\Rightarrow \quad y_{A} = f(x_{A})$$

$$A(-2; 0) \Rightarrow \quad f(-2) = 0$$

$$B(0; 2) \Rightarrow \quad f(0) = 2$$

$$f(x) = (ax + b) e^{-x}$$

$$f(-2) = (ax + b) e^{-x}$$

$$f(-2) = (ax + b) e^{2}$$

$$f(0) = (ax + b) e^{0} = b$$

$$f(-2) = (-2a+b)e^{2} = 0$$

$$f(\alpha) = b = 2$$

$$(-2\alpha + 2)g^{2} = 0$$

$$-2\alpha = -2$$

$$\alpha = 1 \quad \text{et} \quad b = 2$$

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

$$C(-1; f(-1))$$

$$f(-1) = (-1+2)e^{-(-1)} = 0$$

 $= 1 \times e^1 = e$

C(-1; e)

$$\frac{x}{e}$$

$$f(x) = (x+2)e^{-x} = uv$$

$$W = x + 2$$
 $V = e^{-x}$

$$\omega' = 1 \qquad \qquad \forall' = -e^{-x}$$

$$f'(x) = u'v + uv' =$$

$$= e^{-x} + (x+2)(-e^{-x}) =$$

$$= e^{-x} - (x+2)e^{-x} =$$

$$= e^{-x} \left(1 - (x+2)\right) =$$

$$= e^{-x} \left(1 - (x+2)\right) =$$

$$f'(x) = e^{-x}(-x-1)$$

$$e^{-x} > 0 \qquad | -x-1 > 0$$

$$-x > 1$$

$$x \mid -\infty \qquad -1 \qquad +\infty$$

$$f'(x) = e^{-x}(-x-1)$$

$$-x > 1$$

$$x \mid -1 \qquad +\infty$$

$$f'(x) = e^{-x}(-x-1)$$

$$-x > 1$$

$$x \mid -1 \qquad +\infty$$

$$f(-1) = e$$