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10/12 reis 10 preis Reg: 2010831060

# Chain Rule Assignment:

Given,

$$f(z) = e^{-\frac{z}{2}}$$

(x) = h(x);  $h(x) = x - \mu$ 

According to chainrole,

$$\int_{CC} = (u.t_2) \frac{d}{dx} (f(z)) = \frac{d(f(z))}{dz} \times \frac{dz}{dy} \times \frac{dy}{dx}$$

$$\frac{d}{dz} \left( e^{-\frac{z}{2}} \right) \cdot \frac{d}{dy} \left( y^{T_5} \right)$$

$$\frac{d}{dz} \left( x - \mu \right)$$

(bootes)

$$= \left(-\frac{1}{2}e^{-\frac{2}{2}}\right) \cdot \left(s^{-\frac{1}{2}} \cdot \left(x^{\frac{1}{2}}\right)\right) \cdot \left(s^{-\frac{1}{2}} \cdot$$

$$= \left(-\frac{e^{-\frac{2}{2}}}{2}\right) \cdot 2ys^{-1}$$

$$\left[ \frac{d}{dx} \left( x^{T} \cdot x \right) = 2x \right]$$

(solved)