

OU

(st
i)
$$\frac{df}{dx} = 7$$
, where $f(x, \beta) = x^2 \exp(-\beta x)$
 $\frac{df}{dx} = 2x \exp(-\beta x) - x^2 \sec (-\beta x)$
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(cst
ii) $\frac{df}{dy} = 2$, where $f(x, \beta) = x \exp(-\beta x)$
 $\frac{df}{dy} = 2$, where $f(x, \beta) = x \exp(-\beta x)$
 $\frac{df}{dy} = 2$, where $f(x) = \sin(\exp(x^2))$
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