

# Calculus Solution

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*Solution.* By adding and subtracting  $f(x_0)$  in the middle of the numerator, we see that this limit is  $2f'(x_0)$ . Problem 20. Compute the derivative  $\frac{d}{dx} \int_0^x x^2 e^{-t^2} dt$ . *Solution.* By the fundamental theorem of calculus and the chain rule  $\frac{d}{dx} \int_0^x x^2 e^{-t^2} dt = 2xe^{-x^2}$ : Problem 21. Find the first derivative of  $f(x) = x^3(6x^2+1)^3$  when  $x > 0$ .

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