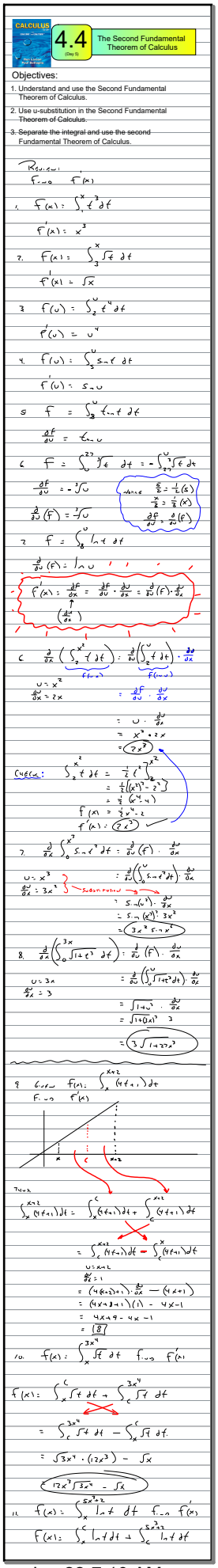
CALCULUS
4.4
(Day 5)
The Second Fundamental Theorem of Calculus
Objectives:
1. Understand and use the Second Fundamental Theorem of Calculus.
2. Use u-substitution in the Second Fundamental Theorem of Calculus.
3. Separate the integral and use the second Fundamental Theorem of Calculus.

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$= \int_c^{5x^3+2} \ln t\,dt - \int_c^{x} \ln t\,dt$

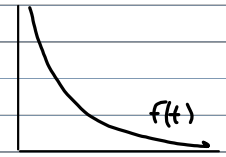
$= \ln(5x^3+2)(15x^2) - \ln x$

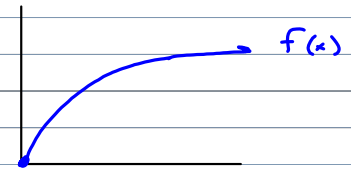
$15x^2 \ln(5x^3+2) - \ln x$

12 LET $f(x) = \int_0^x f(t)\,dt$

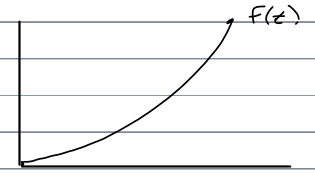
GRAPH $f(x)$

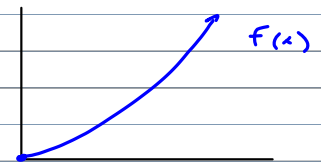
A.





B.





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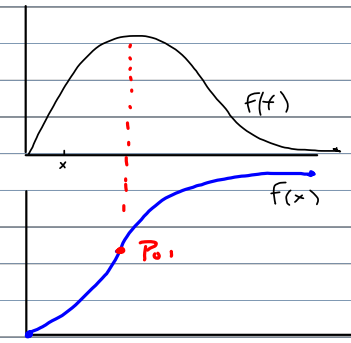
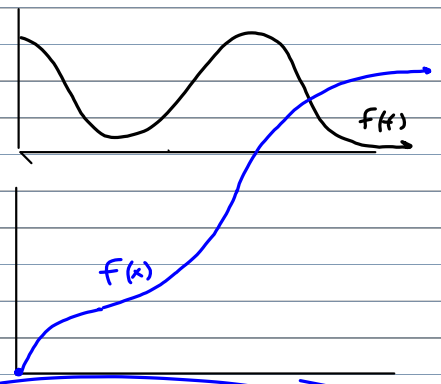


D.



HW Pg 330 # 85-97 odds

Jan 22-7:11 AM

Jan 22-7:11 AM

Jan 22-7:11 AM