

MATH 107-153 Recitation 4-5

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p. 130 #59: Evaluate $\int_1^2 \frac{1+y^2}{y} dy$ exactly [as in $\ln(3\pi)$], using the Fundamental Theorem, and numerically [$\ln(3\pi) \approx 2.243$].

p. 338 #30: Find $\int \frac{e^t + 1}{e^t + t} dt$. Check your answer by differentiating.

p. 338 #40: Find $\int \frac{x \cos(x^2)}{\sqrt{\sin(x^2)}} dx$. Check your answer by differentiating.

p. 338 #74: Find $\int (z + 2)\sqrt{1 - z} dz$.
