

Additional Problem Set 3

1. Evaluate the following integrals:

(a) $\int x^2 \sqrt{1+x^2} dx$ **Answer:** $\frac{1}{9}(1+x^2)^{9/2} - \frac{3}{7}(1+x^2)^{7/2} + \frac{3}{5}(1+x^2)^{5/2} - \frac{1}{3}(1+x^2)^{3/2} + C$

(b) $\int \frac{e^{3x}}{\sqrt{-e^{2x} + 10e^x - 22}} dx$ **Answer:** $\frac{53}{2} \sin^{-1} \left(\frac{e^x - 5}{\sqrt{3}} \right) - \frac{1}{2} (e^x + 15) \sqrt{-e^{2x} + 10e^x - 22} + C$

(c) $\int x^{3/2} \ln x dx$ **Answer:** $\frac{2}{5} x^{5/2} \ln x - \frac{4}{25} x^{5/2} + C$

(d) $\int_0^1 \frac{dx}{(1+\sqrt{x})^4}$ **Answer:** $\frac{1}{6}$

(e) $\int \left(\frac{4x^3 + 18x - 9}{x^4 + 9x^2} \right) dx$ **Answer:** $\frac{1}{x} + 2 \ln |x| + \ln |9 + x^2| + \frac{1}{3} \tan^{-1} \left(\frac{x}{3} \right) + C$

2. Let $I_n = \int_0^1 x^n e^{-x} dx$ where $n = 0, 1, 2, \dots$.

(a) Evaluate I_0 .

(b) Show that $0 \leq I_n \leq \frac{1}{n+1}$.

(c) Use part (b) to deduce $\lim_{n \rightarrow \infty} I_n$.

(d) Show that $I_n = nI_{n-1} - \frac{1}{e}$.

Answers: (a) $1 - \frac{1}{e}$, (c) 0

3. Let $I_n = \int_0^{\frac{\pi}{2}} \cos^n x dx$ where n is a positive integer.

(a) Show that $nI_n = (n-1)I_{n-2}$.

(b) Use part (a) to evaluate $\lim_{n \rightarrow \infty} \frac{I_n}{I_{n-2}}$.

Answer: (b) 1

Additional Problem Set

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