Calculus with Analytic Geometry II

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1 Integration by Parts Worksheet

- I. Evaluate $\int xe^x dx$
- II. Evaluate $\int \ln(x) dx$
- III. Evaluate $\int e^x \cos(x) dx$
- IV. Find the antiderivative of arctan(x).
- V. Find the reduction formula for $\int \cos^n(x) dx$, where $n \geq 2$.
- VI. Find the reduction formula for $\int \tan^n(x) dx$, where $n \geq 2$.