

## INTEGRATION BY PARTS

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Name: \_\_\_\_\_

Evaluate the following integrals

1.  $\int x \cos(x) dx$

2.  $\int \ln(x)^2 dx$

3.  $\int e^{2\theta} \sin(3\theta) \, d\theta$

4.  $\int (x^2 + 1)e^{-1} \, dx$

5.  $\int \arctan(\theta) \, d\theta$