

7.1 Integration by Parts - Extra Practice Problems

- $\int x^2 \cos x \, dx.$
- $\int e^x \sin(2x) \, dx.$
- $\int \ln(3x) \, dx.$
- $\int \arctan(4x) \, dx.$
- $\int x \ln(x) \, dx.$
- $\int x \cos(2 - x) \, dx.$
- $\int x 2^x \, dx.$
- $\int (\ln x)^2 \, dx.$
- $\int \frac{\ln x}{x^2} \, dx.$
- $\int e^{\sqrt{x}} \, dx.$
- $\int_1^4 \sqrt{x} \ln(x) \, dx.$
- $\int_0^2 x e^{9x} \, dx.$
- $\int_1^4 \ln(\sqrt{x}) \, dx.$
- $\int \cos(x) \ln(\sin x) \, dx.$
- $\int_1^2 x^4 (\ln x)^2 \, dx.$
- $\int_{\sqrt{\pi/2}}^{\sqrt{\pi}} \theta^3 \cos(\theta^2) \, d\theta.$