10.4 Integration by Parts

Integration by Parts – Steps: Order of *u* and *v'* = *u*

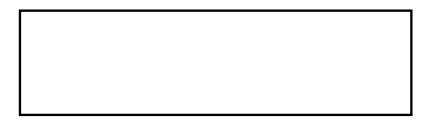
 $\int x^2 \ln x \, dx$

 $\int x \sin x \, dx$

 $\int x^2 e^x \, dx$

 $\int x^2 \sin 3x \, dx$

Definite Integration by Parts –



Evaluate $\int_{1}^{e} \ln x \, dx$