

Integration by Parts

$$\int u dv = uv - \int v du$$

BC Only: Integration by Parts

If u and v are differentiable functions of x , then

$$\int u dv = uv - \int v du$$

Tips: For your choice of the function u , make the selection following:

A. LIPET: Logarithmic, Inverse Trig, Polynomial, Exponential, Trig

B. LIATE: Logarithmic, Inverse Trig, Algebraic, Trig, Exponential

* Comes from Integration by Parts. MEMORIZE $\int \ln x dx = x \ln x - x + C$

Integration by Parts: $\int u \, dv = uv - \int v \, du$