

Calculus II

Reference: strategy for integrating by parts

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Integration by Parts

Every differentiation rule

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Every **differentiation rule**

$$(uv)' = u'v + uv' \quad | \text{ Product Rule}$$

Integration by Parts

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We just proved the following.

Proposition ((Rule of) Integration by Parts)

$$\int udv = uv - \int vdu$$

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Logs, Inverse trig, Polynomial, Exponential, Trig