

Kalkulus Integral

Integral Parsial

Integral Parsial

- Integral tentu
- $\int_a^b u dv = uv \Big|_a^b - \int_a^b v du$
- Integral tak tentu
- $\int u dv = uv - \int v du$

Integral Parsial

- $\int x \cos x \, dx = \dots$
- $\int x \cos x \, dx = x \sin x - \int \sin x \, dx =$
- $= \dots$

Integral Parsial

- $\int \sin^{-1} x \, dx = \dots$
- $\int \sin^{-1} x \, dx = x \sin^{-1} x - \int \frac{x}{\sqrt{1-x^2}} \, dx =$
- $= \dots$

Integral Parsial Berulang

- $\int e^x \cos x \, dx = \dots$
- $\int e^x \cos x \, dx = e^x \sin x - \int e^x \sin x \, dx = \dots$
- dengan,
- $\int e^x \sin x \, dx = -e^x \cos x + \int e^x \cos x \, dx =$
- sehingga,
- $\int e^x \cos x \, dx = \frac{1}{2} (e^x \sin x + e^x \cos x)$

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