

Integrasjanslikindher Delis integresjon }
Substitusjon }
Bygger ut hhuitetene Dullröksappsportning Delvis integerosjan omformer sur'ex til su'r ex Formel: | uv'de = uv - Ju'v de Hun hanner formelen fra: Produktregel (uv)' = u'v + uv' $uv + C = \int uv dx = \int u'v dx + \int uv' dx = \int uv' dx = uv - \int u'v dx + \int uv' dx$ $= - \times \cos x - \int 1 \cdot (-\cos x) dx = - \times \cos x + \int \cos x dx = - \times \cos x + D \sin x + C$ U=X V=X thought: Jxex de u= 2x v=ex $= x^{2} \times - \int 2xe^{x} dx \qquad u = 2x \quad v = x$ $u' = 2 \quad v = x$ $= x^{2} - \left[2xe^{x} - \int 2e^{x} dx \right] - x^{2}e^{x} - 2xe^{x} + 2\int e^{x} dx = x^{2}e^{x} - 2xe^{x} + 2e^{x} +$ Funkjaur sam blir enklere ud derivosjam: U=hn/x/, u'= 1/x

Elmangel: $\int_{V'}^{X} \frac{\lambda \ln x}{\lambda} dx$ $u = \frac{1}{1 + x^2}$ $u = \frac{\lambda^2}{1 + x^2}$ $= \frac{x^2}{2} \ln x - \left(\frac{1}{x} \cdot \frac{x^2}{2} dx - \frac{x^2}{2} \ln x - \left(\frac{x}{2} dx - \frac{x}{2} dx - \frac{x}{$

 $=\frac{x^2}{2} \ln x - \frac{x^2}{4} + C$

Element:
$$\int \frac{dx}{dx} dx = \int \frac{1}{1 - \frac{1}{2} dx} dx \qquad U = \frac{1}{1 + x^2} \cdot V = x$$

$$= x \cdot \frac{1}{1 + x^2} \cdot x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}{2} dx$$

$$= x \cdot \frac{1}{2} dx \qquad x \cdot \frac{1}$$