
Solution Of Integral Calculus With Applications By A K Hazra

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$(2t)dt = 2 \int \cos^3 t + \cos t + c$ $7) \int (x^2 + 1) dx$ solution: observe ...solution-of-integral-calculus-with-applications-by-a-k-... The indefinite integrals represent the family of the given function whose derivatives are f . It returns a function of the independent variable. The integration of a function $f(x)$ is given by $F(x)$ and it is represented by: $\int f(x) dx = F(x) + C$. where R.H.S. of the equation means integral of $f(x)$ with respect to x . Integral Calculus - Definition, Formulas, Applications ...Solution: Let $u = x^2 - 1$, $du/dx = 2x$ and the given integral can be written as $\int (x^2 - 1) 2x dx = \int u 20 (du/dx) dx = \int u 20 du$ according to above property $= u^{21} / 21 + c = (x^2 - 1)^{21} / 21 + c$ 6 - Integration by Parts. $\int f(x) g'(x) dx = f(x) g(x) - \int f'(x) g(x) dx$ Example: Evaluate the integral $\int x \cos x$

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 Solution: Using direct substitution with $t = p w$, and $dt = 1/2 p w dw$, that is, $dw = 2/p w dt = 2t dt$, we get: $\int \sin(p w) dw = \int 2t \sin t dt$
 Using integration by part method with $u = 2t$ and $dv = \sin t dt$, so

$du = 2 dt$ and $v = -\cos t$, we get: $\int 2t \sin t dt = -2t \cos t + \int 2 \cos t dt = -2t \cos t + 2 \sin t + C$
 Therefore, $\int \sin(p w) dw = -2/p w \cos(p w) + 2 \sin(p w) + C$
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A formula useful for solving indefinite integrals is that the integral of x to the

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Integration by Parts. $\int f(x) g'(x) dx = f(x)g(x) - \int f'(x)g(x) dx$ Example: Evaluate the integral $\int x \cos x dx$ Solution:

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Using the fact that the graph of f passes through the point $(1, 3)$ you get $3 = \frac{1}{4} + 2 + 2 + C$ or $C = -5\frac{3}{4}$.

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