ΦΡΟΝΤΙΣΤΗΡΙΟ ΜΕΣΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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Αρχική Συνάρτηση

Συνάρτηση	Παράγουσα	Ορισμένο ολοκλήρωμα
c	cx	$\int_a^\beta c\,dx = [cx]_a^\beta = c(\beta - a)$
x	$\frac{x^2}{2}$	$\int_a^\beta x\,dx = \left[\frac{x^2}{2}\right]_a^\beta = \frac{\beta^2}{2} - \frac{a^2}{2}$
x^ν	$\frac{x^{\nu+1}}{\nu+1}$	$\int_a^\beta x^\nu\,dx = \left[\frac{x^{\nu+1}}{\nu+1}\right]_a^\beta = \frac{\beta^{\nu+1}}{\nu+1} - \frac{a^{\nu+1}}{\nu+1}$
$\frac{1}{2\sqrt{x}}$	$\sqrt{x}$	$\int_a^\beta \frac{1}{2\sqrt{x}}\,dx = [\sqrt{x}]_a^\beta = \sqrt{\beta} - \sqrt{a}$
$\sqrt[\nu]{x^\mu}$	$\frac{x^{\frac{\mu}{\nu}+1}}{\frac{\mu}{\nu}+1}$	$\int_a^\beta \sqrt[\nu]{x^\nu}\,dx = \left[\frac{x^{\frac{\mu}{\nu}+1}}{\frac{\mu}{\nu}+1}\right]_a^\beta = \frac{\beta^{\frac{\mu}{\nu}+1}}{\frac{\mu}{\nu}+1} - \frac{a^{\frac{\mu}{\nu}+1}}{\frac{\mu}{\nu}+1}$
$\frac{1}{x^2}$	$-\frac{1}{x}$	$\int_a^\beta \frac{1}{x^2}\,dx = \left[-\frac{1}{x}\right]_a^\beta = -\frac{1}{\beta} + \frac{1}{a}$
$\eta\mu x$	$-\sigma\upsilon\nu x$	$\int_a^\beta \eta\mu x\,dx = [-\sigma\upsilon\nu x]_a^\beta = -\sigma\upsilon\nu\beta + \sigma\upsilon\nu a$
$\sigma\upsilon\nu x$	$\eta\mu x$	$\int_a^\beta \sigma\upsilon\nu x\,dx = [\eta\mu x]_a^\beta = \eta\mu\beta - \eta\mu a$
$\frac{1}{\sigma\upsilon\nu^2 x}$	$\varepsilon\varphi x$	$\int_a^\beta \frac{1}{\sigma\upsilon\nu^2 x}\,dx = [\varepsilon\varphi x]_a^\beta = \varepsilon\varphi\beta - \varepsilon\varphi a$
$\frac{1}{\eta\mu^2 x}$	$\sigma\varphi x$	$\int_a^\beta \frac{1}{\eta\mu^2 x}\,dx = [-\sigma\varphi x]_a^\beta = -\sigma\varphi\beta + \sigma\varphi a$
e^x	e^x	$\int_a^\beta e^x\,dx = [e^x]_a^\beta = e^\beta - e^a$
a^x	$\frac{a^x}{\ln a}$	$\int_a^\beta \mu^x\,dx = \left[\frac{\mu^x}{\ln a}\right]_a^\beta = \frac{\mu^\beta}{\ln\mu} - \frac{\mu^a}{\ln\mu}$
$\frac{1}{x}$	$\ln\lvert x\rvert$	$\int_a^\beta \frac{1}{x}\,dx = [\ln\lvert x\rvert]_a^\beta = \ln\lvert\beta\rvert - \ln\lvert a\rvert$