

Per partes

Remark 1. How to choose functions for per partes.

In the following tables, $P(x)$ denotes a polynomial.

	$v(x)$	$u'(x)$
$P(x) \cdot e^{kx}$	$P(x)$	e^{kx}
$P(x) \cdot a^{kx}$	$P(x)$	a^{kx}
$P(x) \cdot \sin(kx)$	$P(x)$	$\sin(kx)$
$P(x) \cdot \cos(kx)$	$P(x)$	$\cos(kx)$

	$v(x)$	$u'(x)$
$P(x) \cdot \ln^n x$	$\ln^n x$	$P(x)$
$P(x) \cdot \arcsin(kx)$	$\arcsin(kx)$	$P(x)$
$P(x) \cdot \arccos(kx)$	$\arccos(kx)$	$P(x)$
$P(x) \cdot \arctan(kx)$	$\arctan(kx)$	$P(x)$
$P(x) \cdot \operatorname{arccot}(kx)$	$\operatorname{arccot}(kx)$	$P(x)$

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Remark 2. How to choose functions for per partes.

In the following tables, $P(x)$ denotes a polynomial.

	$v(x)$	$u'(x)$
$P(x) \cdot e^{kx}$	$P(x)$	e^{kx}
$P(x) \cdot a^{kx}$	$P(x)$	a^{kx}
$P(x) \cdot \sin(kx)$	$P(x)$	$\sin(kx)$
$P(x) \cdot \cos(kx)$	$P(x)$	$\cos(kx)$

	$v(x)$	$u'(x)$
$P(x) \cdot \ln^n x$	$\ln^n x$	$P(x)$
$P(x) \cdot \arcsin(kx)$	$\arcsin(kx)$	$P(x)$
$P(x) \cdot \arccos(kx)$	$\arccos(kx)$	$P(x)$
$P(x) \cdot \arctan(kx)$	$\arctan(kx)$	$P(x)$
$P(x) \cdot \operatorname{arccot}(kx)$	$\operatorname{arccot}(kx)$	$P(x)$

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Remark 3. How to choose functions for per partes.

In the following tables, $P(x)$ denotes a polynomial.

	$v(x)$	$u'(x)$
$P(x) \cdot e^{kx}$	$P(x)$	e^{kx}
$P(x) \cdot a^{kx}$	$P(x)$	a^{kx}
$P(x) \cdot \sin(kx)$	$P(x)$	$\sin(kx)$
$P(x) \cdot \cos(kx)$	$P(x)$	$\cos(kx)$

	$v(x)$	$u'(x)$
$P(x) \cdot \ln^n x$	$\ln^n x$	$P(x)$
$P(x) \cdot \arcsin(kx)$	$\arcsin(kx)$	$P(x)$
$P(x) \cdot \arccos(kx)$	$\arccos(kx)$	$P(x)$
$P(x) \cdot \arctan(kx)$	$\arctan(kx)$	$P(x)$
$P(x) \cdot \operatorname{arccot}(kx)$	$\operatorname{arccot}(kx)$	$P(x)$