<u>An2</u>	# 1 Integral	An2 # 2 Integral	An2 # 3 Integral	An2 # 4 Integral	
	$\int x^n dx$	$\int \frac{dx}{x}$	$\int e^x dx$	$\int a^x dx$	
An2	# 5 Integral	An2 # 6 Integral	An2 # 7 Integral	An2 # 8 Integral	
	$\int sin(x)dx$	$\int \cos(x)dx$	$\int tan(x)dx$	$\int \cot(x)dx$	
An2	# 9 Integral	An2 # 10 Integral	An2 # 11 Integral	An2 # 12 Integral	
	$\int \frac{dx}{\cos^2(x)}$	$\int \frac{dx}{\sin^2(x)}$	$\int sinh(x)dx$	$\int \cosh(x)dx$	
An2	# 13 Integral	An2 # 14 Integral	An2 # 15 Integral	An2 # 16 Integral	
	$\int tanh(x)dx$	$\int \coth(x) dx$	$\int \frac{dx}{\cosh^2(x)}$	$\int \frac{dx}{sinh^2(x)}$	

# 4	Antwort	# 3	Antwort	# 2	Antwort	# 1	Antwort
	$rac{a^x}{ln(a)}$		e^x		ln x		$\frac{x^{n+1}}{n+1}$
# 8	$\frac{Antwort}{ln sin(x) }$	<u># 7</u>	$\frac{Antwort}{-ln cos(x) }$	<u># 6</u>	$\frac{Antwort}{sin(x)}$	<u># 5</u>	-cos(x)
# 12	$\frac{Antwort}{sinh(x)}$	<u># 11</u>	$\frac{Antwort}{cosh(x)}$	# 10	-cot(x)	# 9	$\frac{Antwort}{tan(x)}$
# 16	-coth(x)	# 15	$\frac{Antwort}{tanh(x)}$	# 14	$\frac{Antwort}{ln sinh(x) }$	# 13	$\frac{Antwort}{ln cosh(x) }$

An2

17 Integral

An2

18 Integral

An2

19 Integral

An2

20 Integral

$$\int \frac{dx}{a^2 + x^2}$$

$$\int \frac{dx}{a^2 - x^2}$$

$$\int \frac{dx}{x^2 - a^2}$$

$$\int \frac{dx}{\sqrt{a^2 - x^2}}$$

An2

21 Integral

An2

22 Integral

$$\int \frac{dx}{\sqrt{a^2 + x^2}}$$

$$\int \frac{dx}{\sqrt{x^2 - a^2}}$$

$$\arcsin\left(\frac{x}{a}\right)$$
$$(|x| < a, a > 0)$$

$$-\frac{1}{a}Arcoth\left(\frac{x}{a}\right)$$

$$=\frac{1}{2a}ln\left|\frac{x-a}{x+a}\right|$$

$$(|x| > a, a > 0)$$

$$\frac{\frac{1}{a}Artanh\left(\frac{x}{a}\right)}{=\frac{1}{2a}ln\left|\frac{a+x}{a-x}\right|}$$

$$(|x| < a, a > 0)$$

$$\frac{1}{a} \arctan\left(\frac{x}{a}\right)$$

Antwort

$$Arcosh\left(\frac{x}{a}\right)$$

$$= ln \left| x + \sqrt{x^2 - a^2} \right|$$

$$(|x| > a, a > 0)$$

$$Arsinh\left(\frac{x}{a}\right)$$

$$= ln\left|x + \sqrt{x^2 + a^2}\right|$$

$$(a > 0)$$