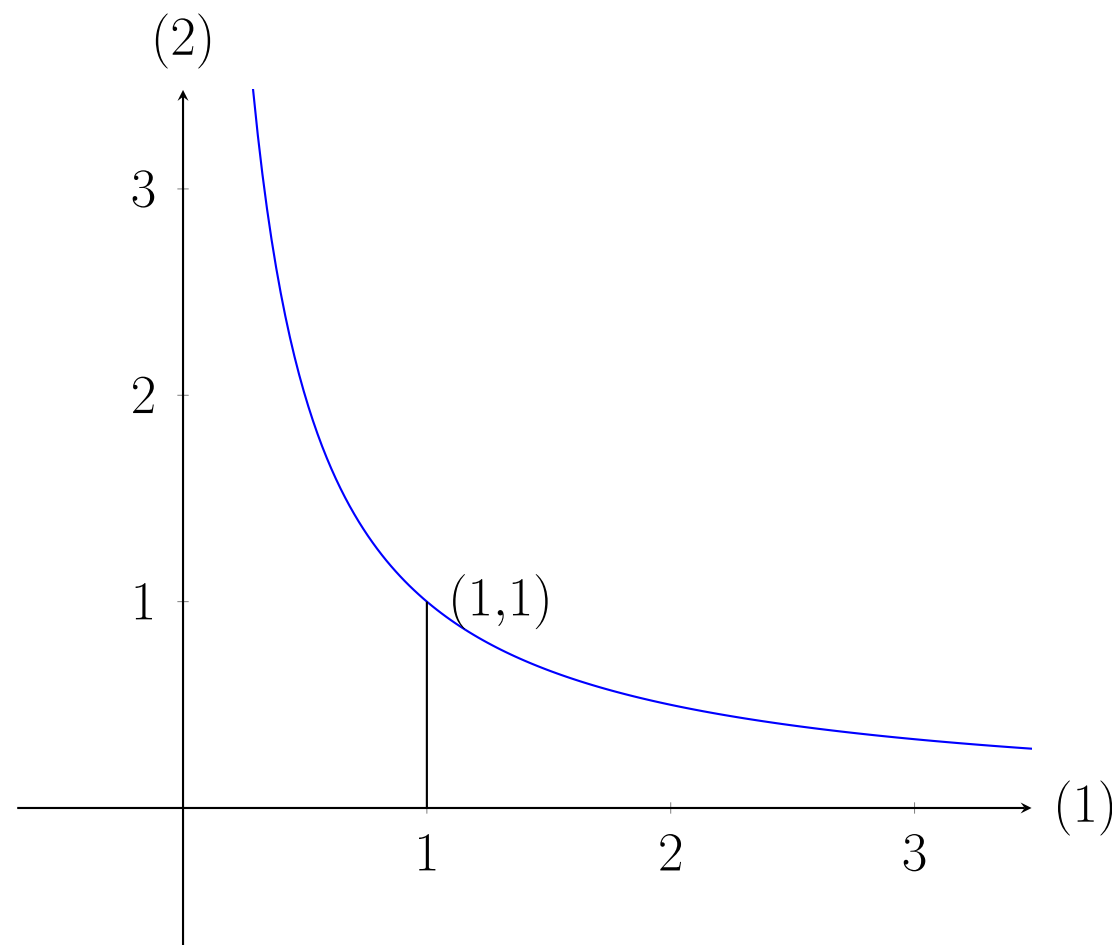
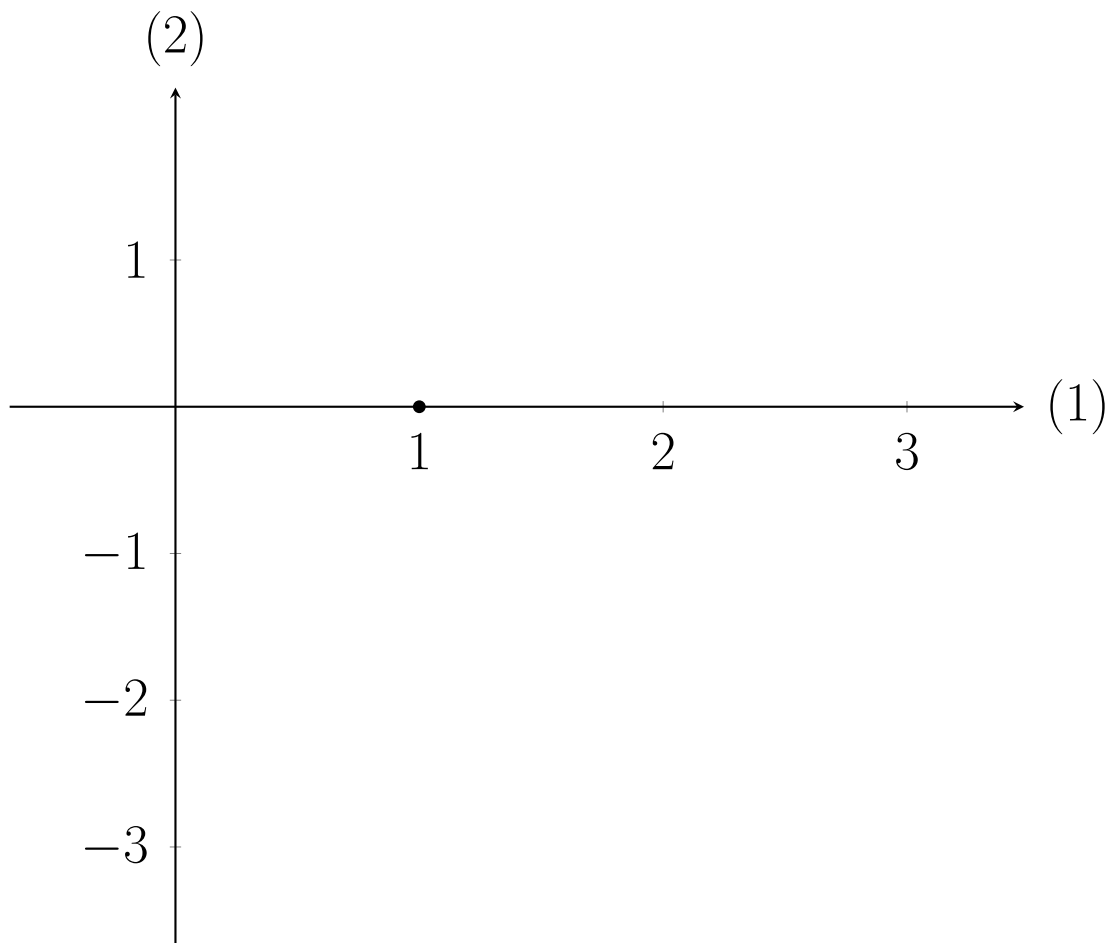


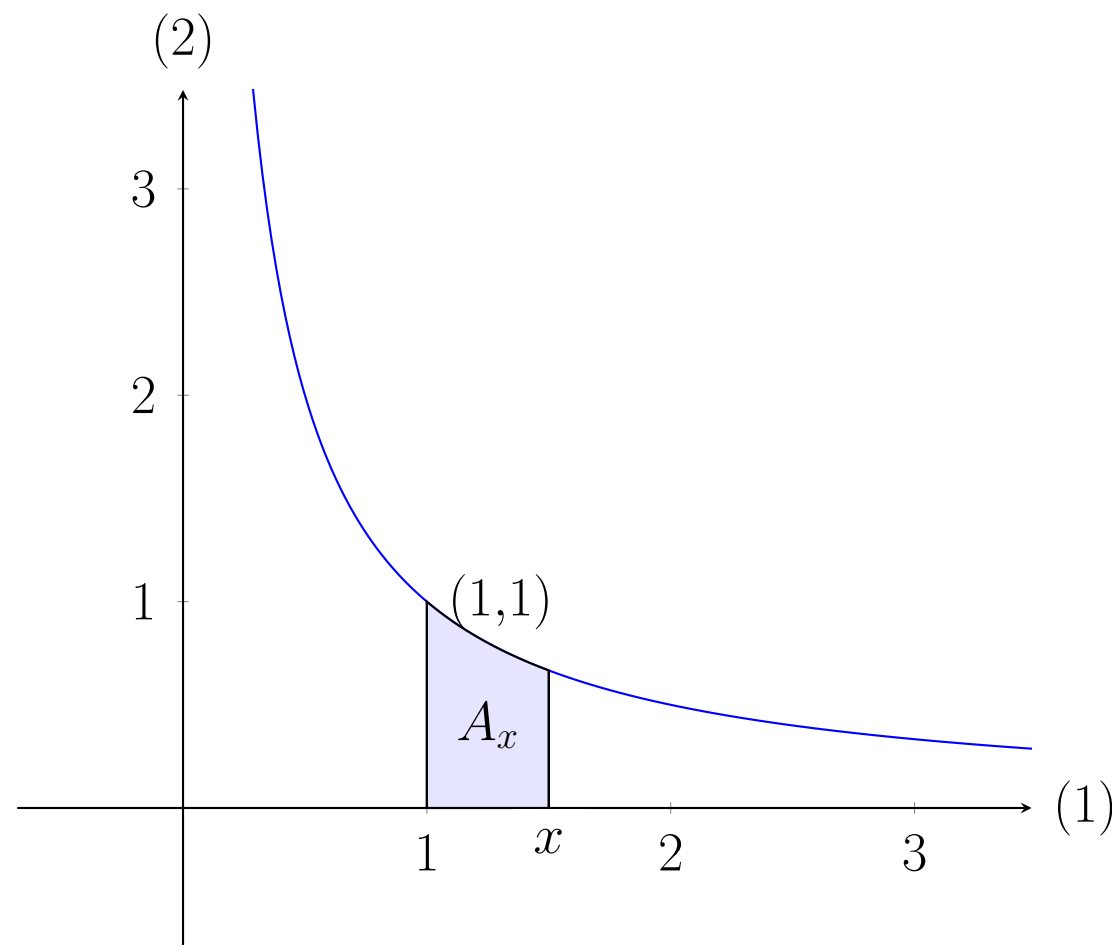
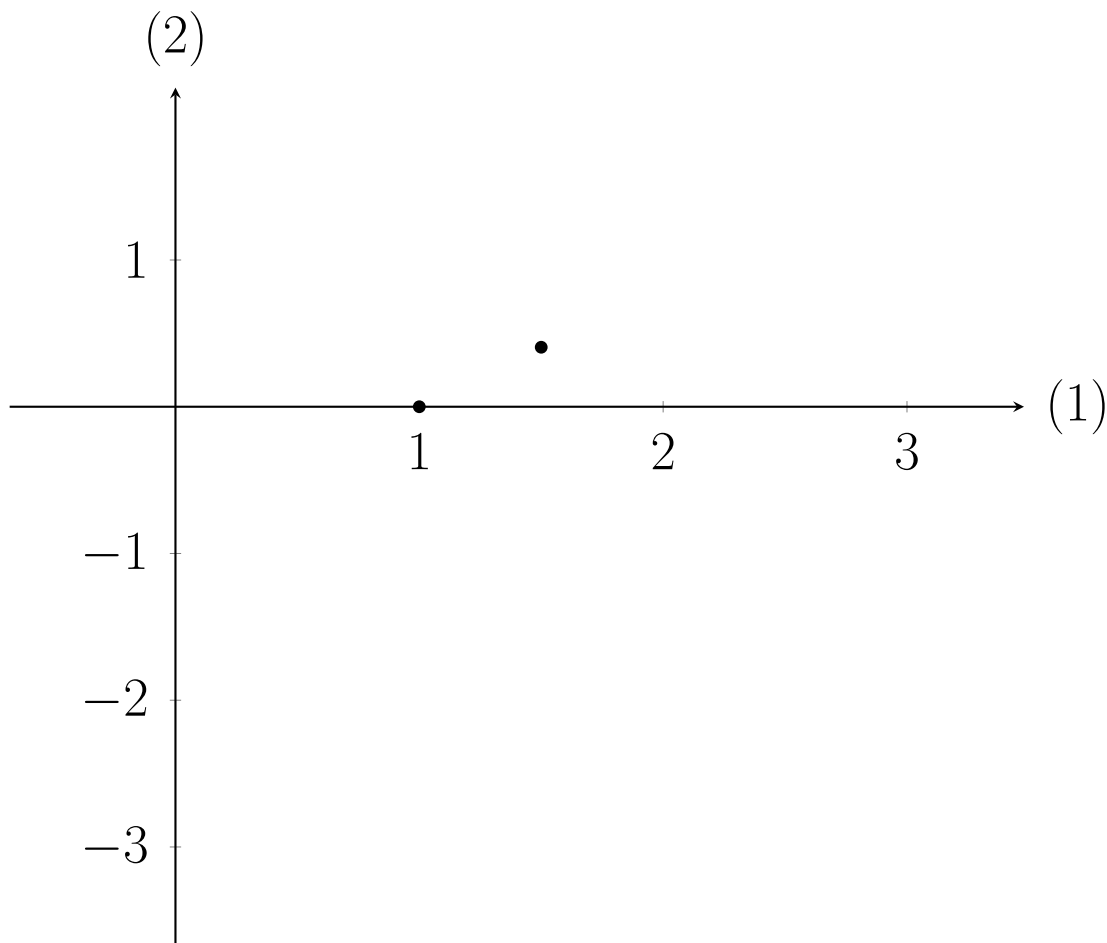
Den naturlige logaritme

Definition af den naturlige logaritme



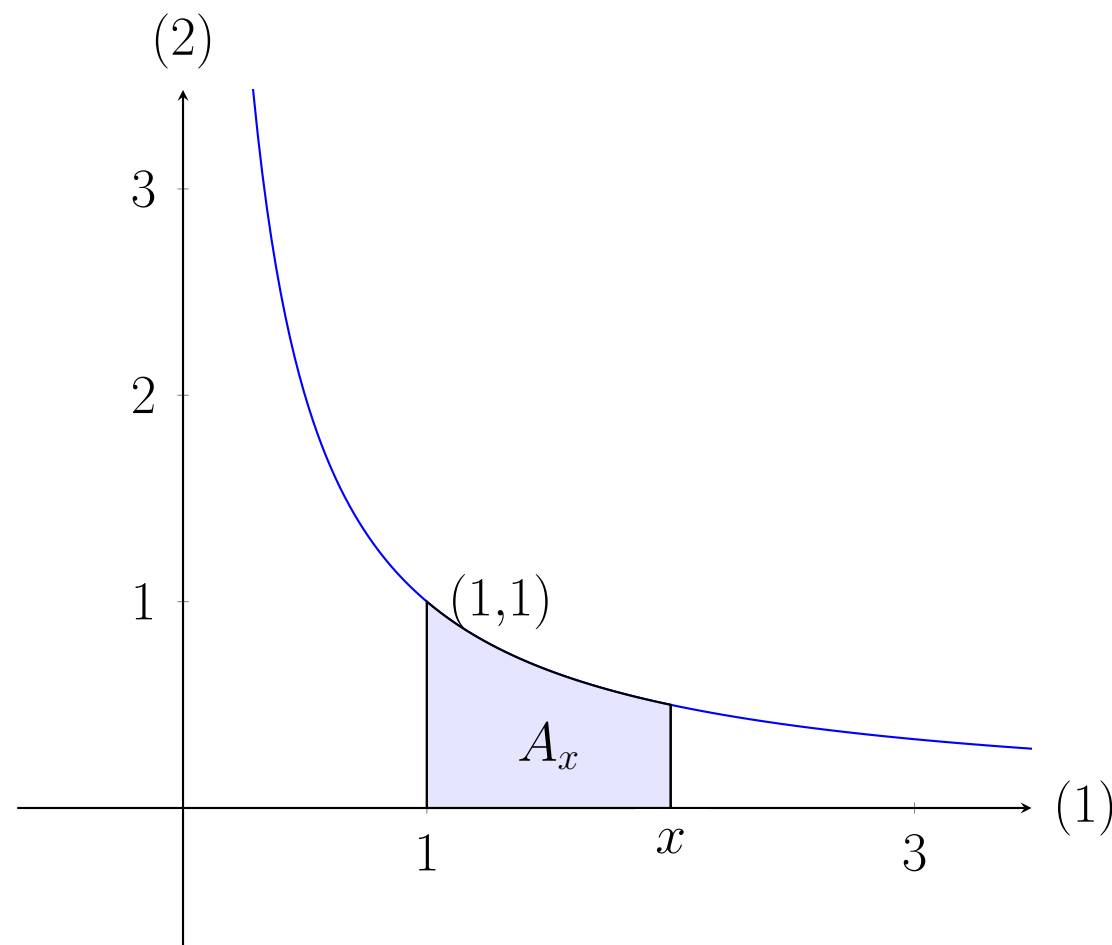
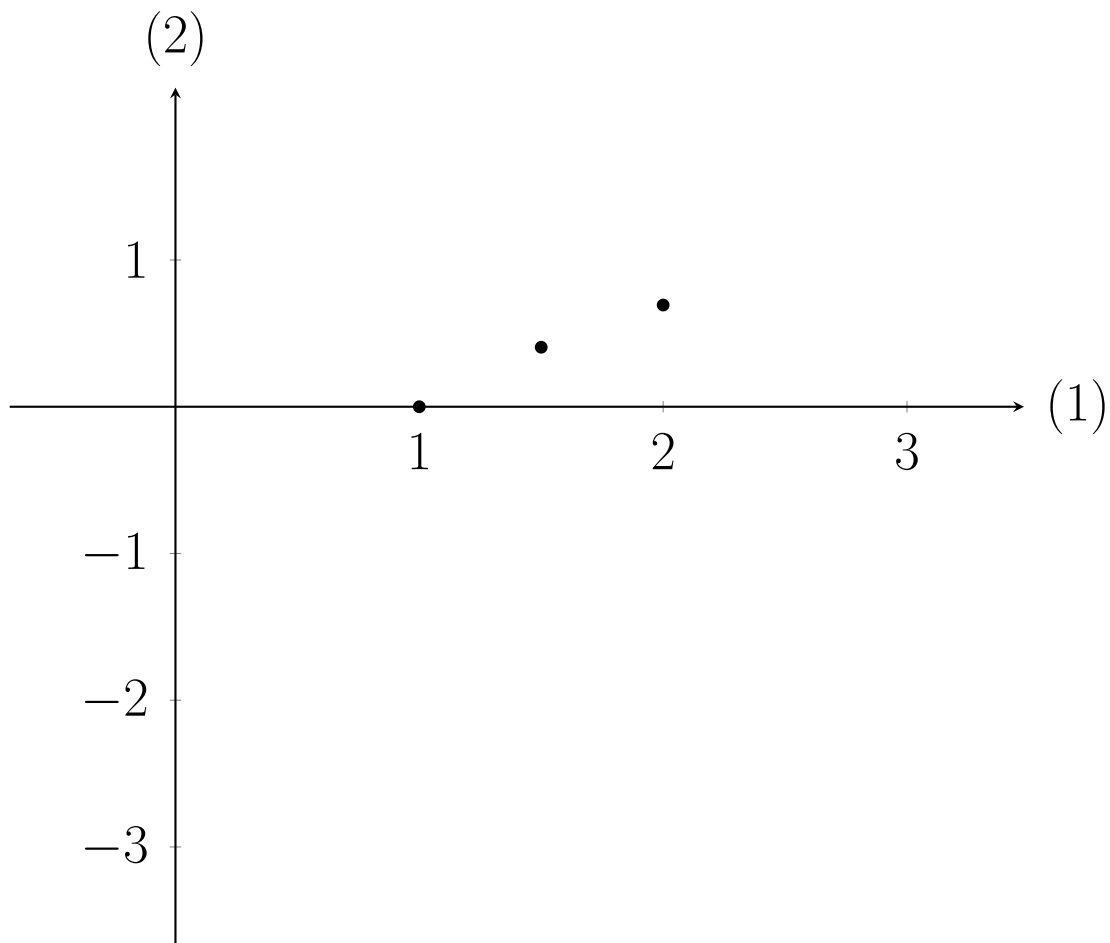
Den naturlige logaritme

Definition af den naturlige logaritme



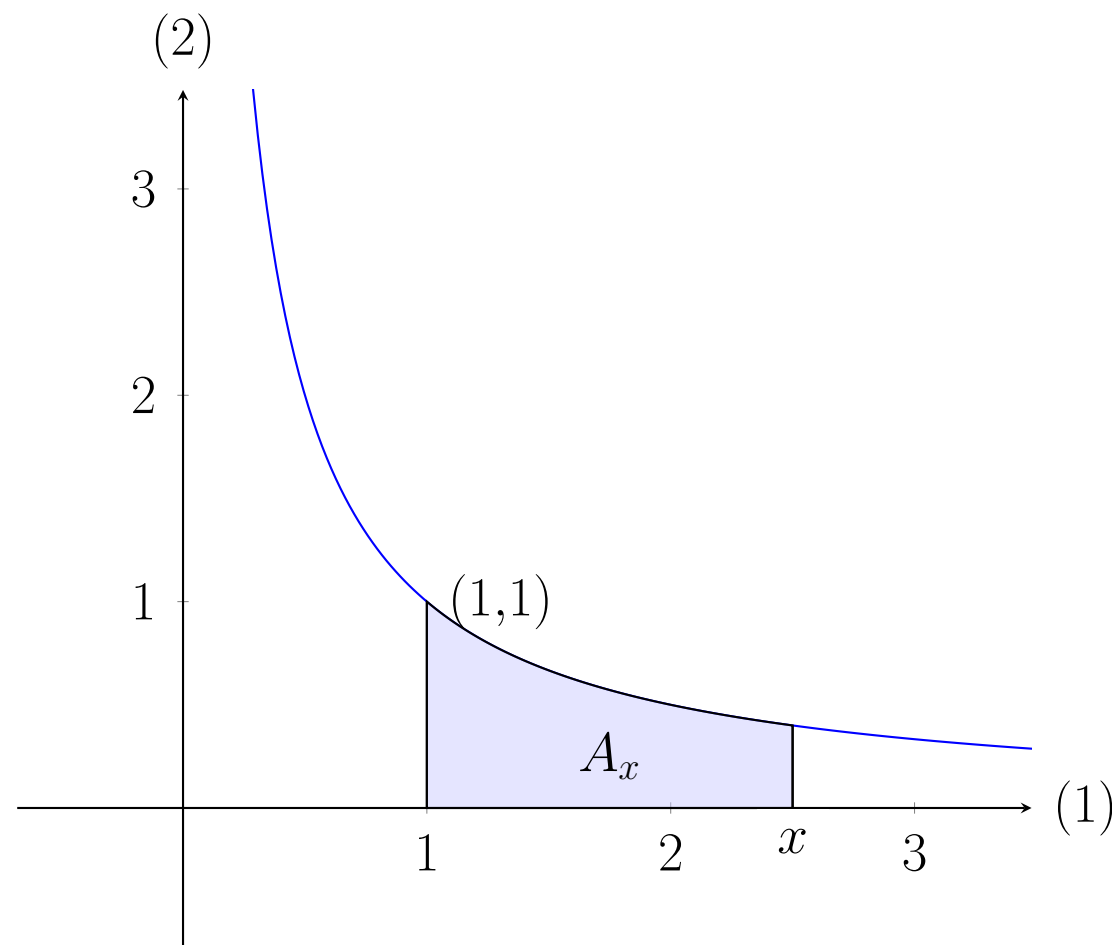
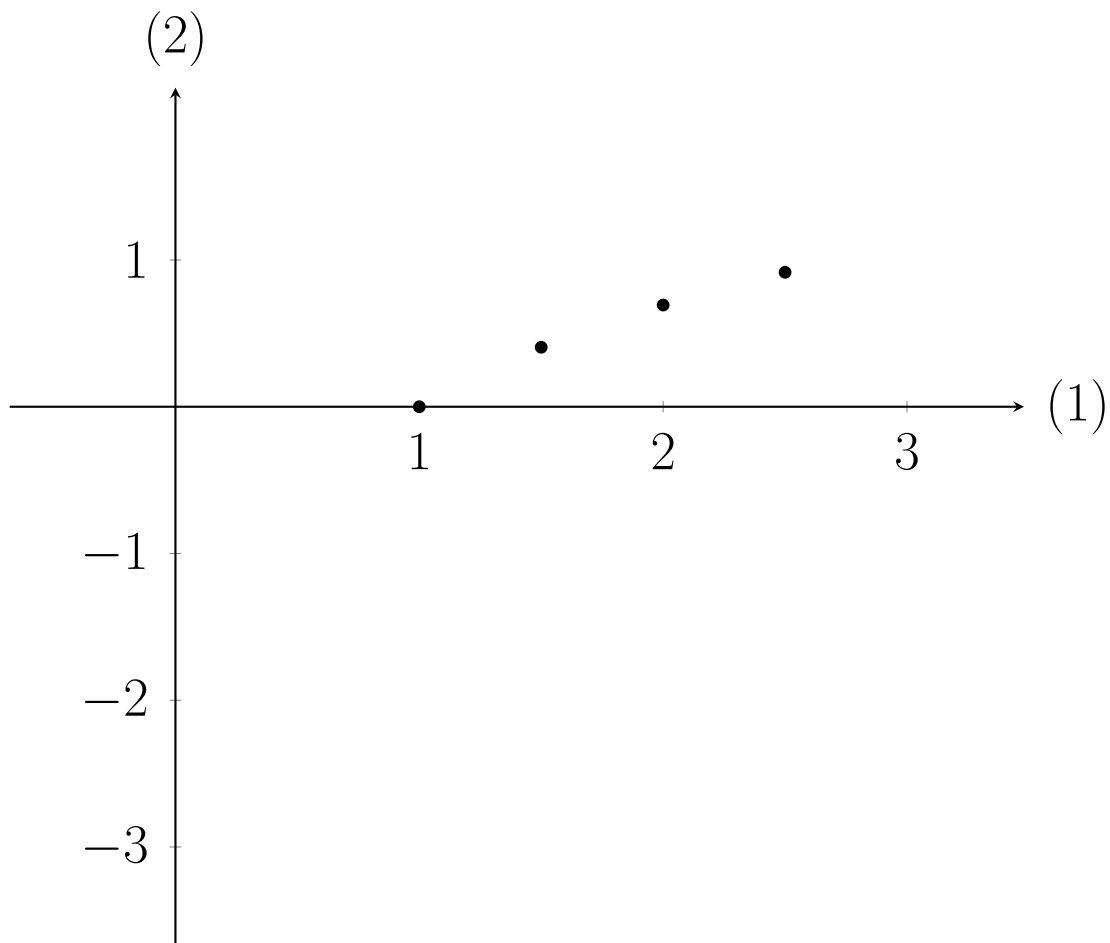
Den naturlige logaritme

Definition af den naturlige logaritme



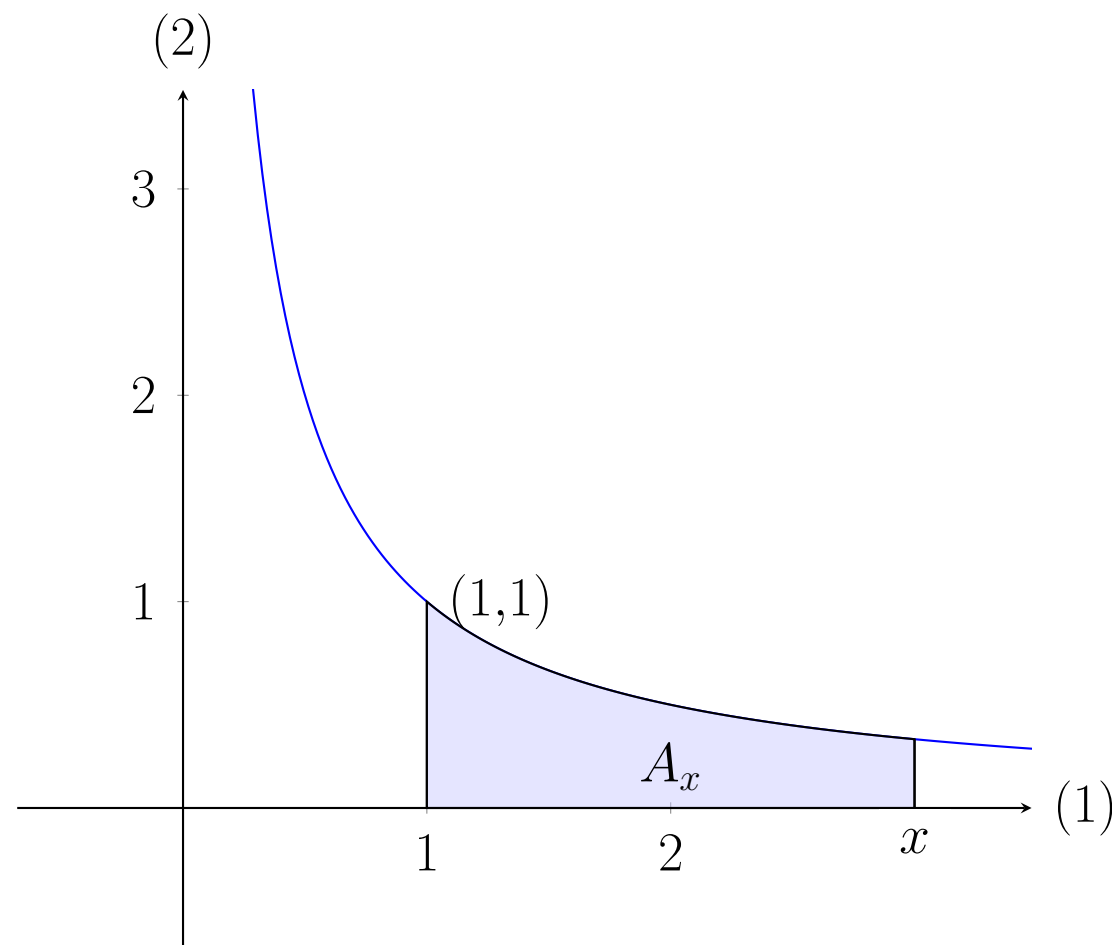
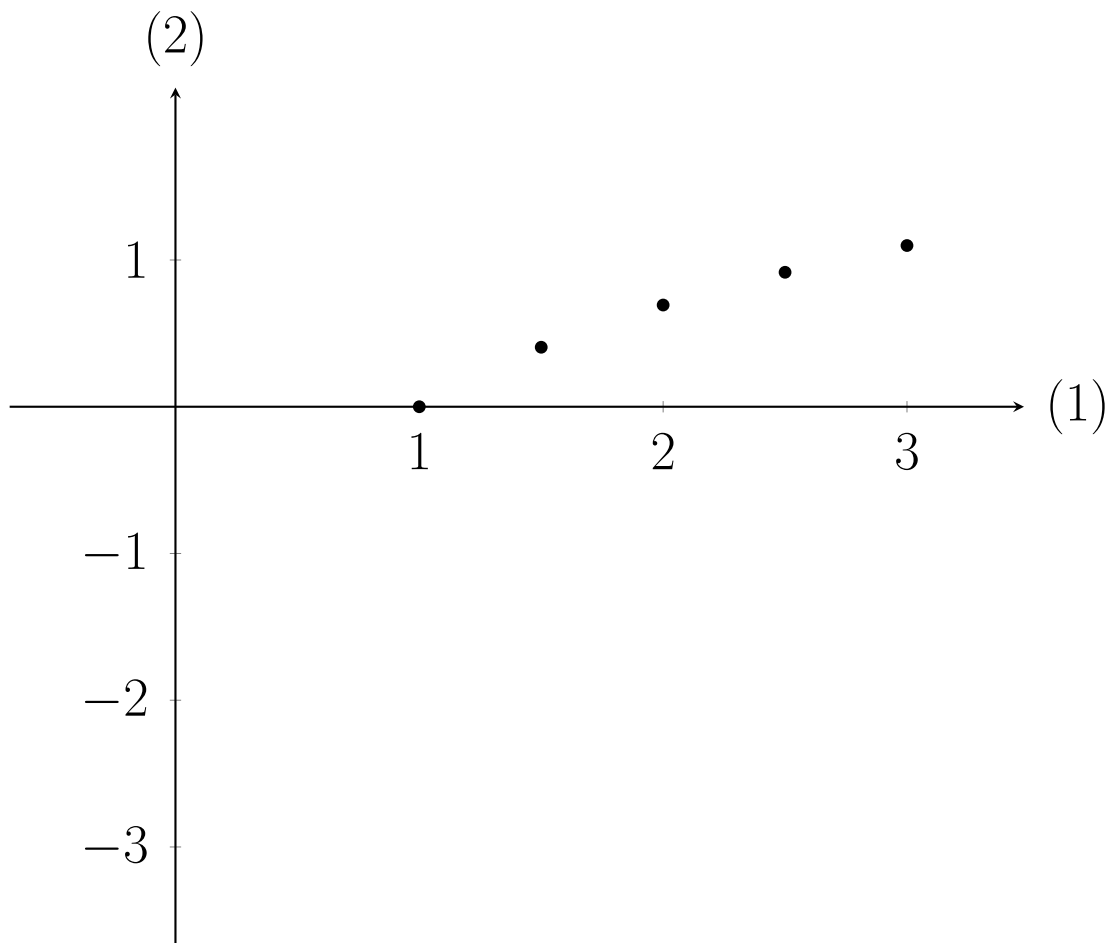
Den naturlige logaritme

Definition af den naturlige logaritme



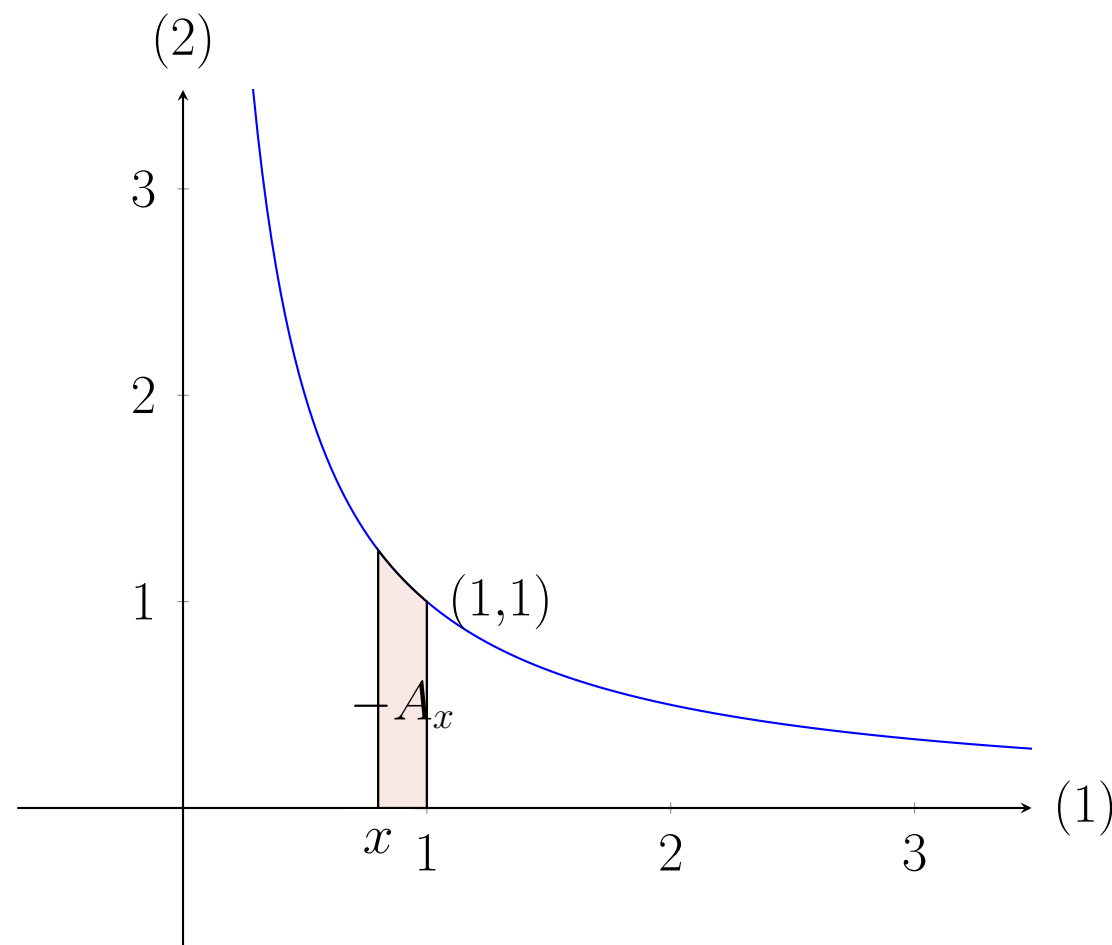
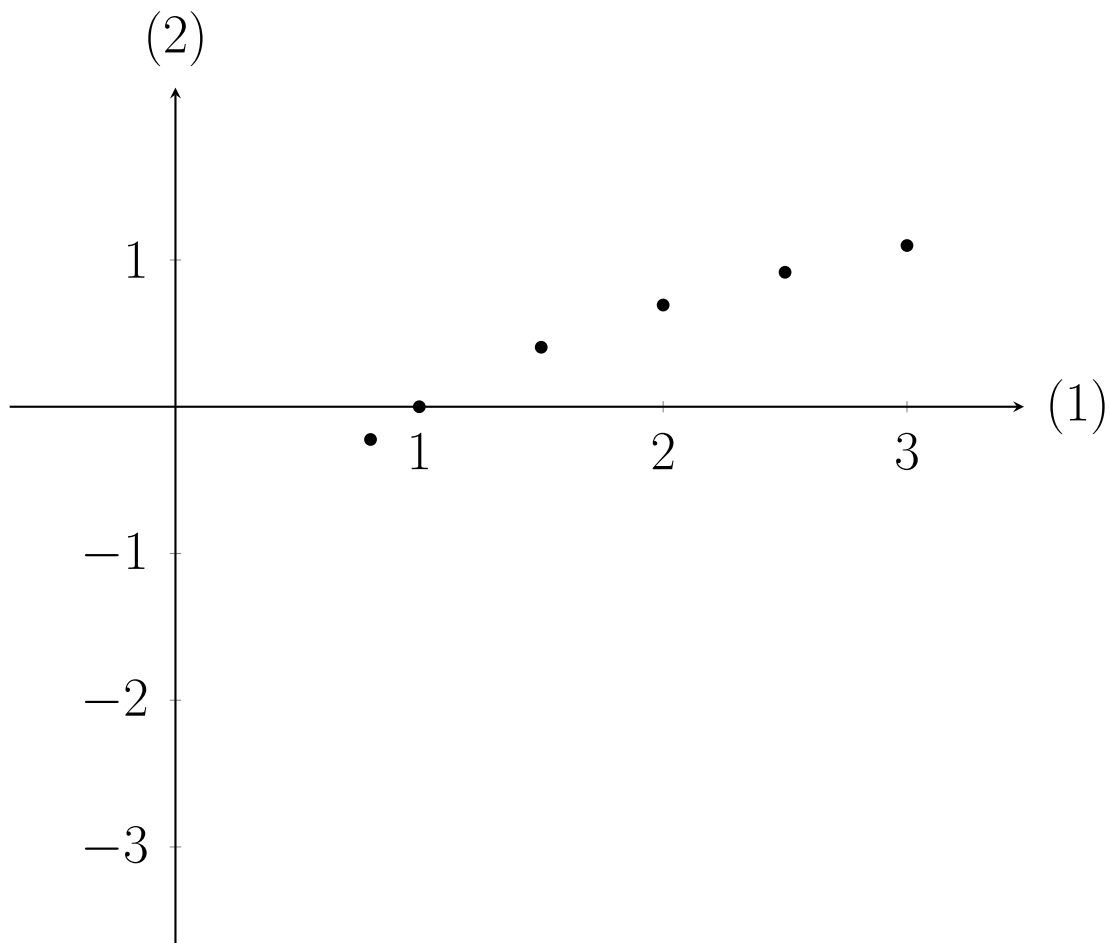
Den naturlige logaritme

Definition af den naturlige logaritme



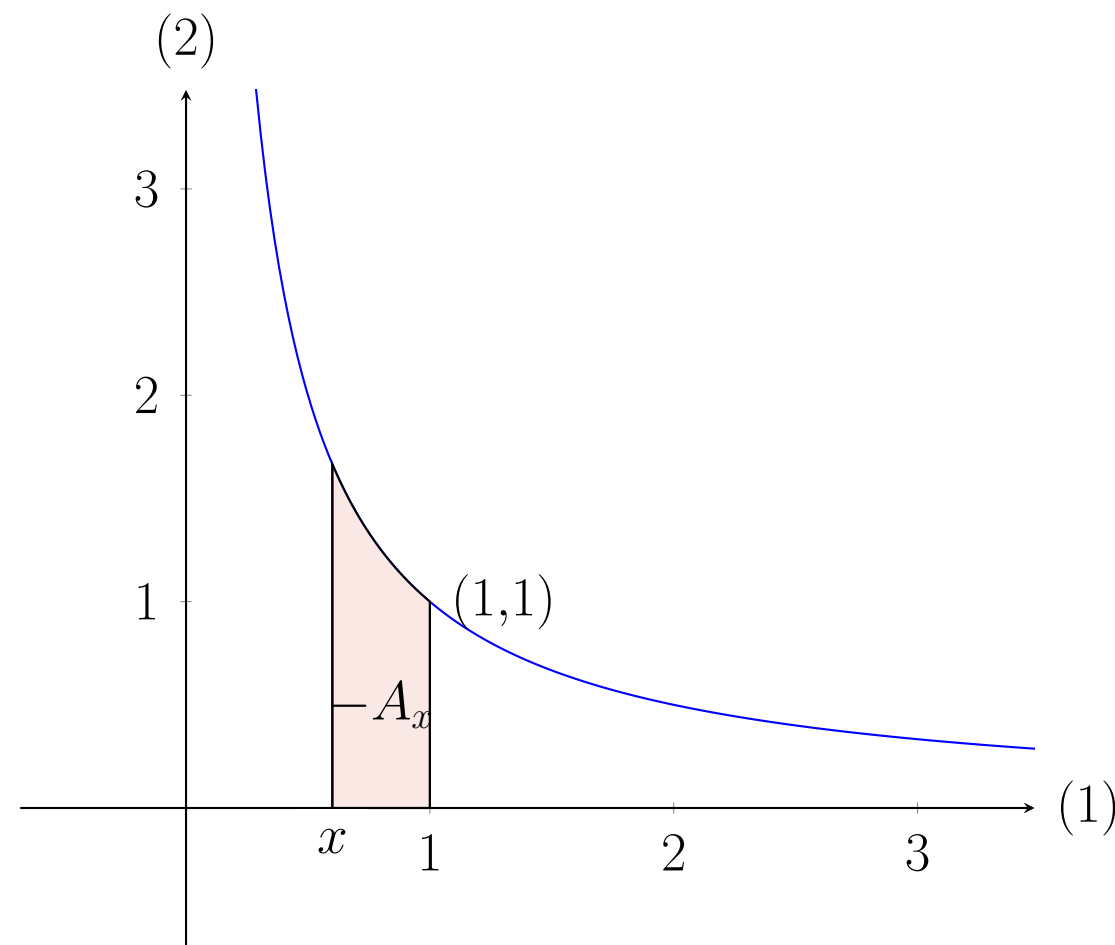
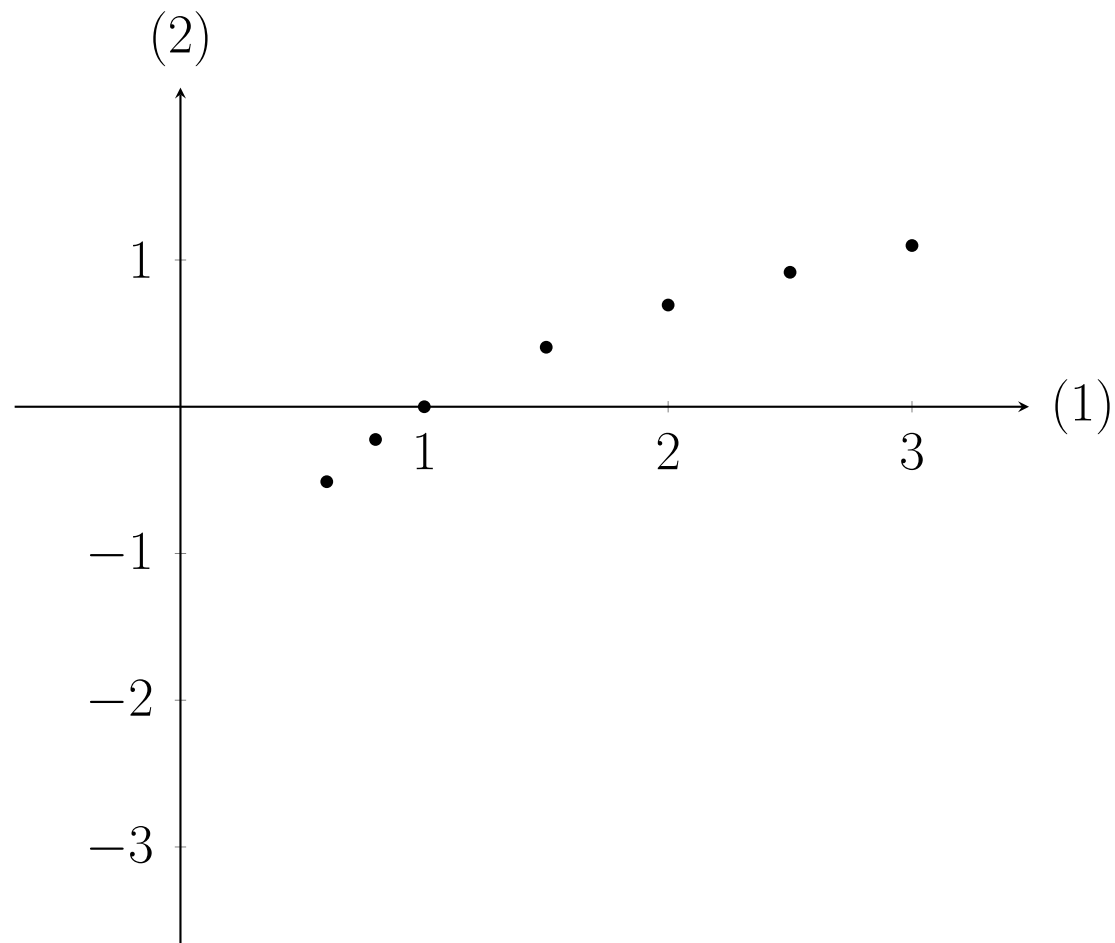
Den naturlige logaritme

Definition af den naturlige logaritme



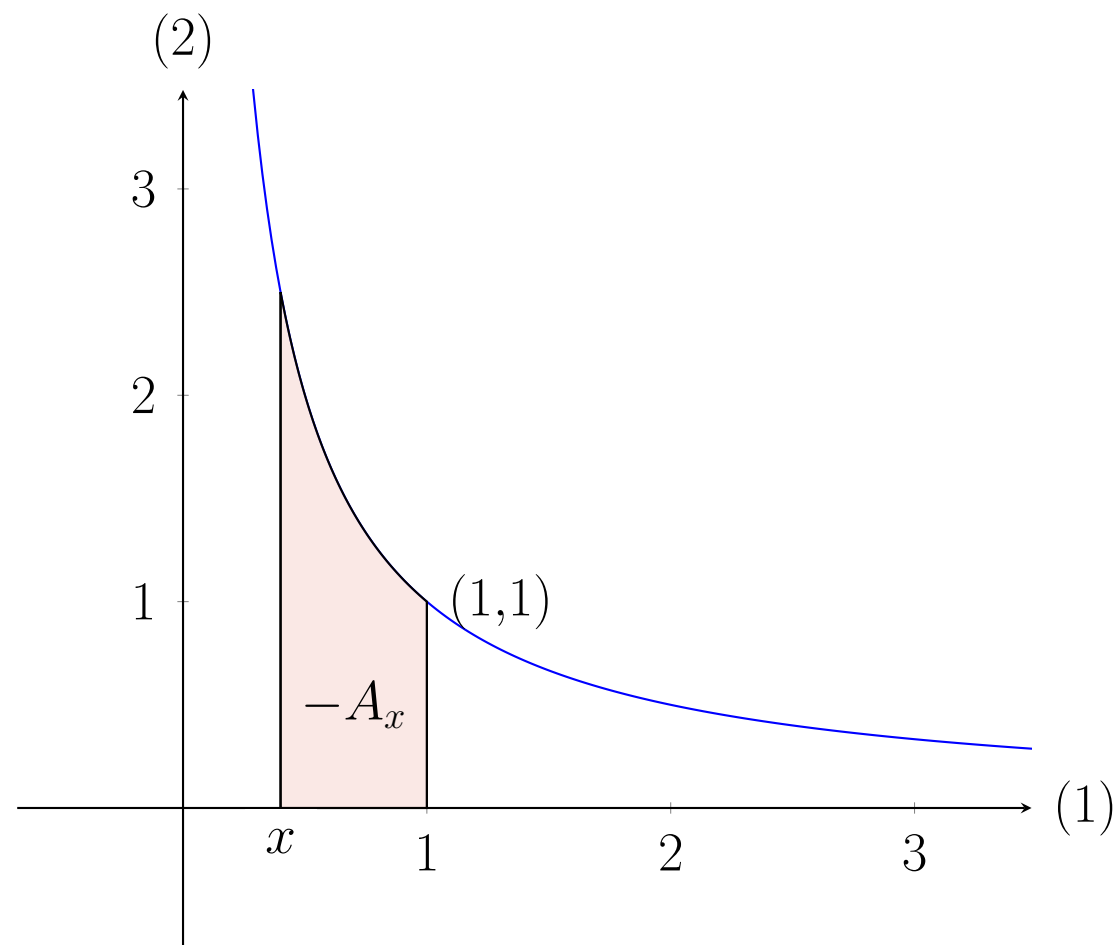
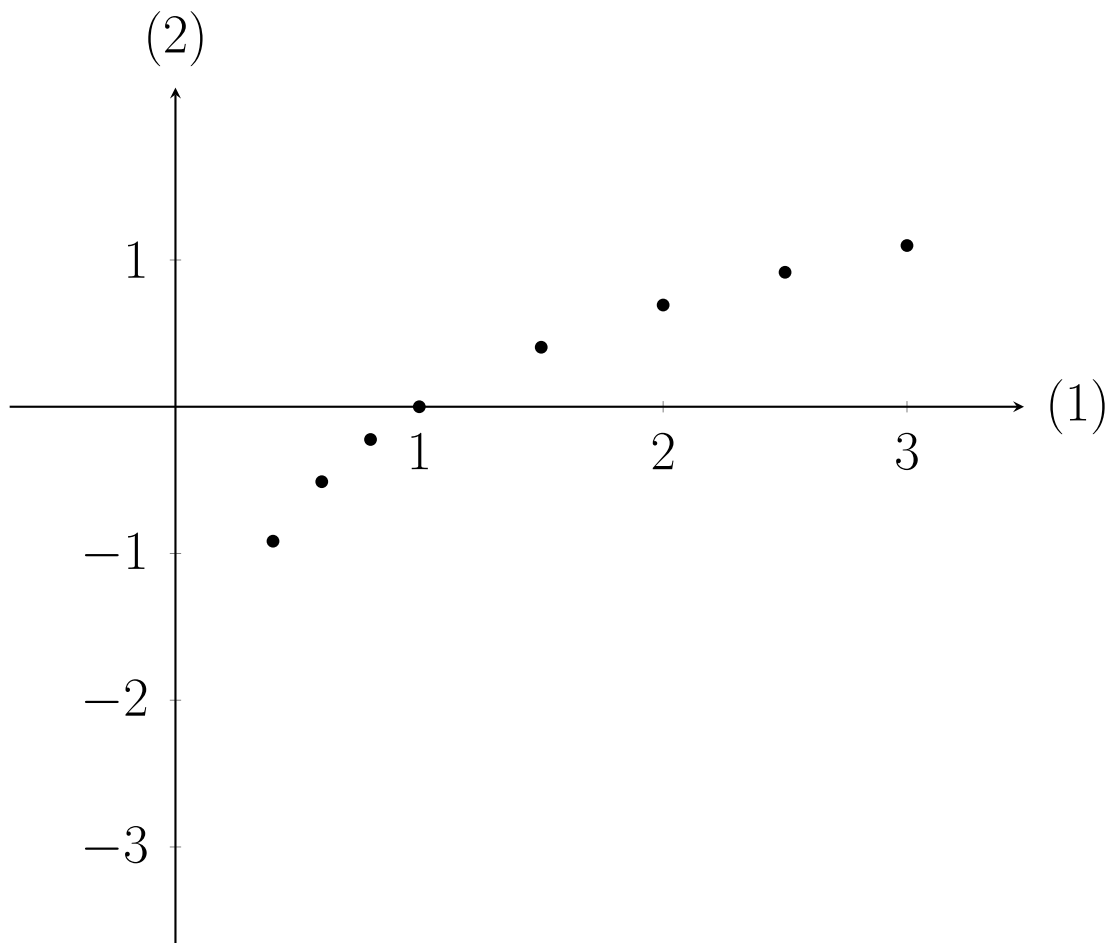
Den naturlige logaritme

Definition af den naturlige logaritme



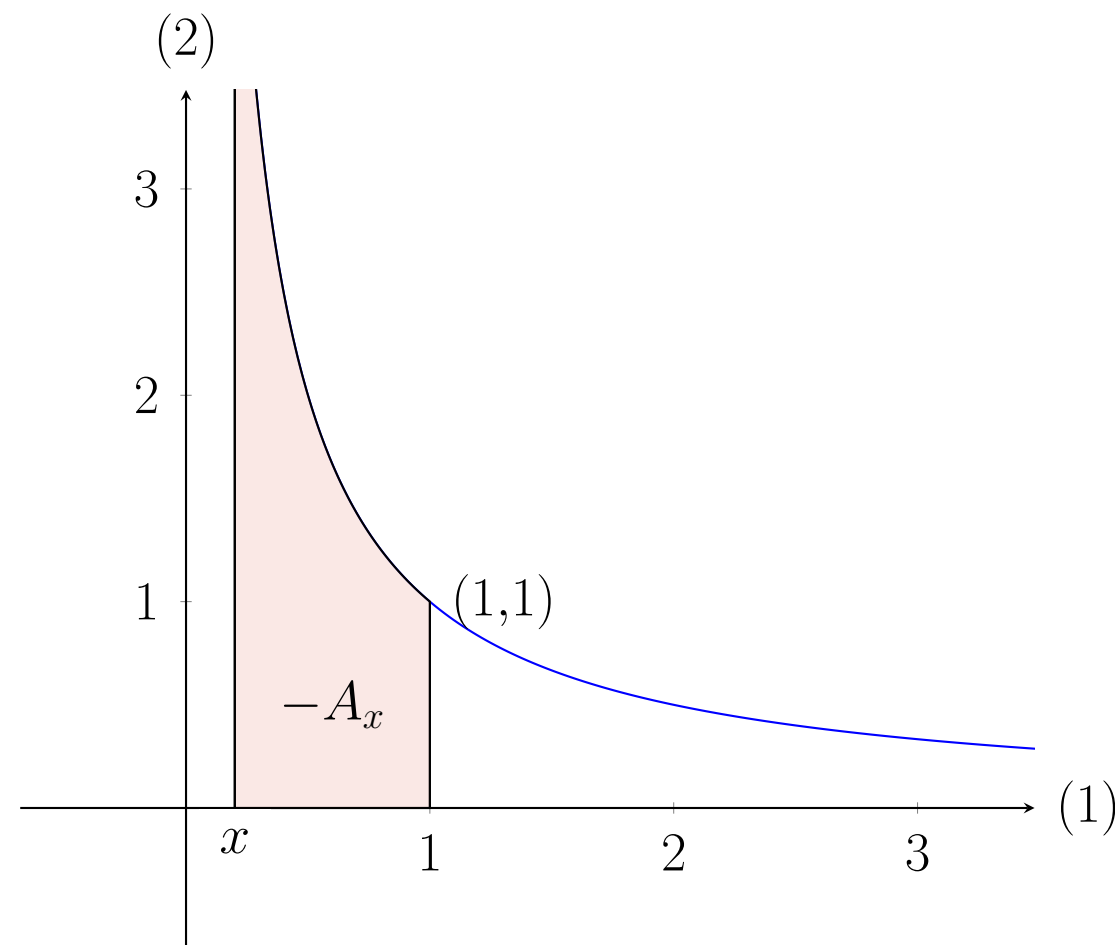
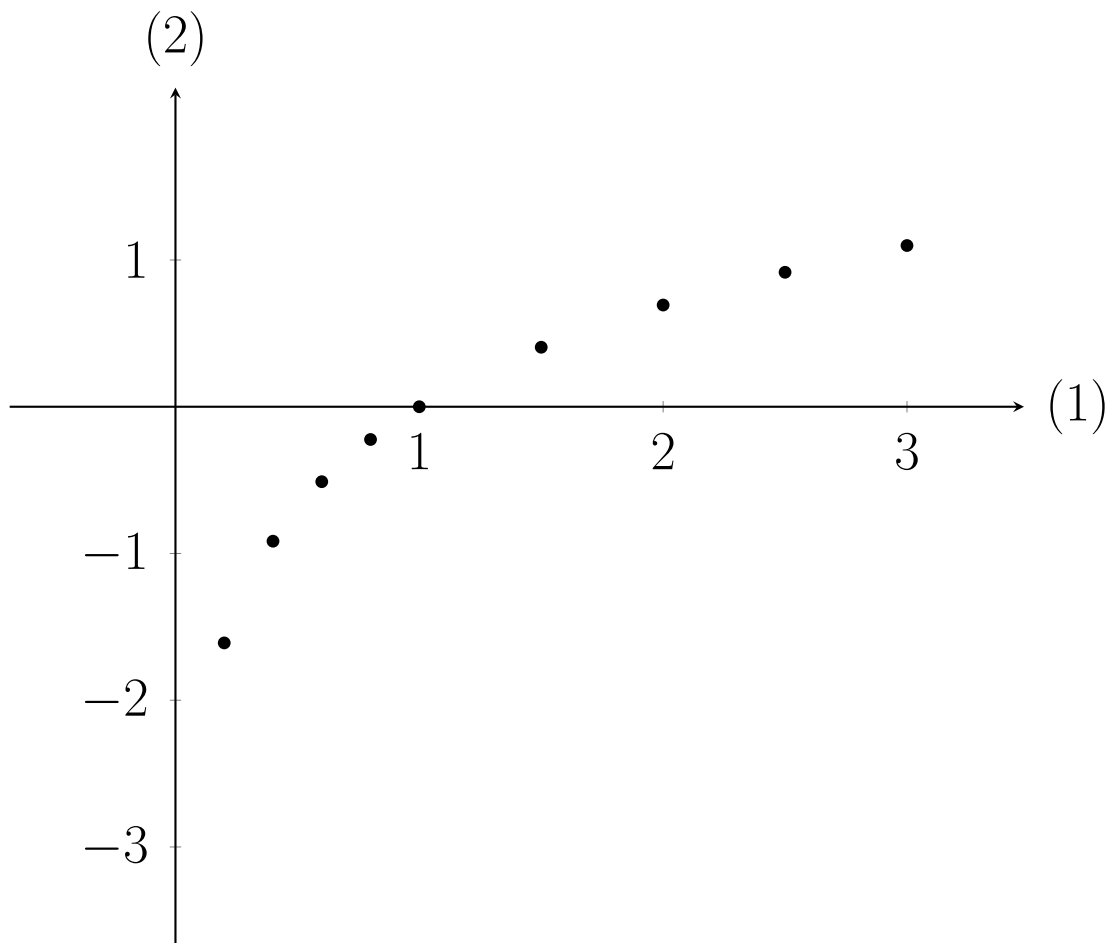
Den naturlige logaritme

Definition af den naturlige logaritme



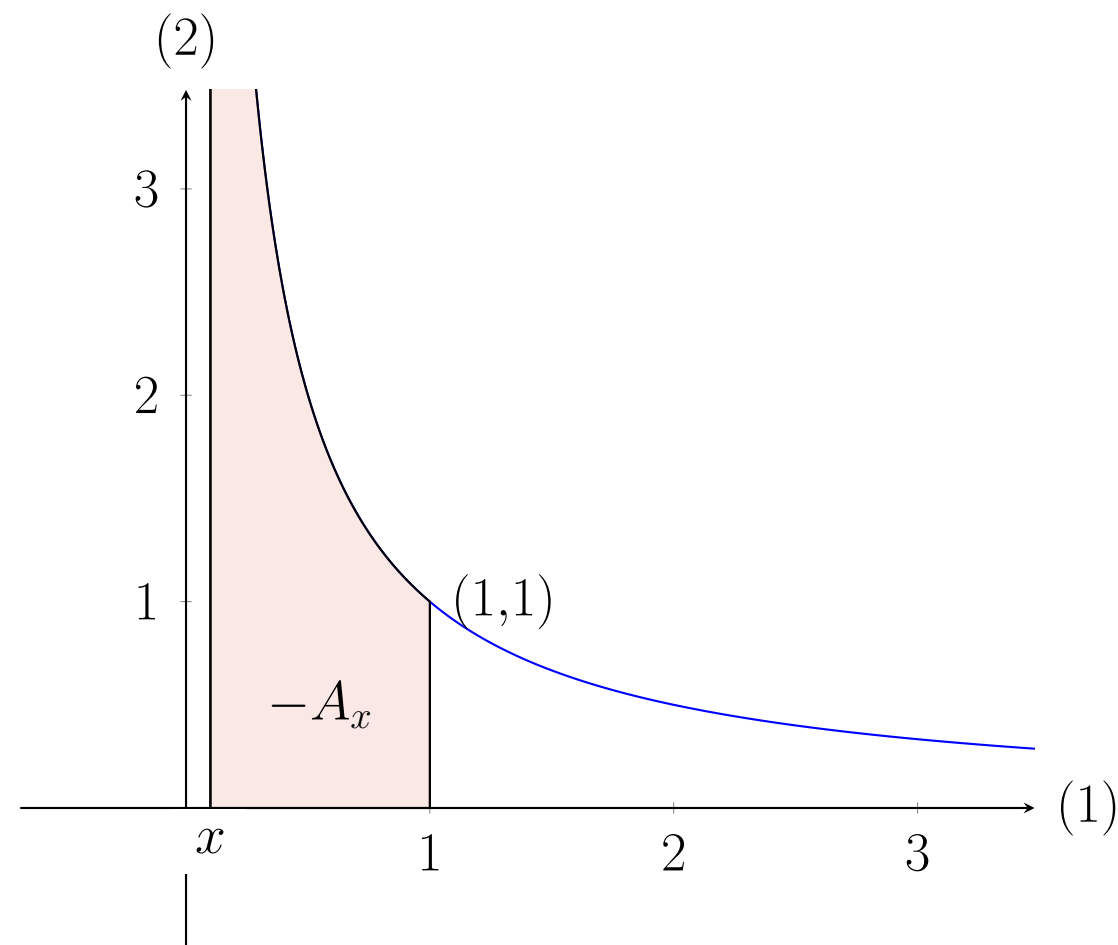
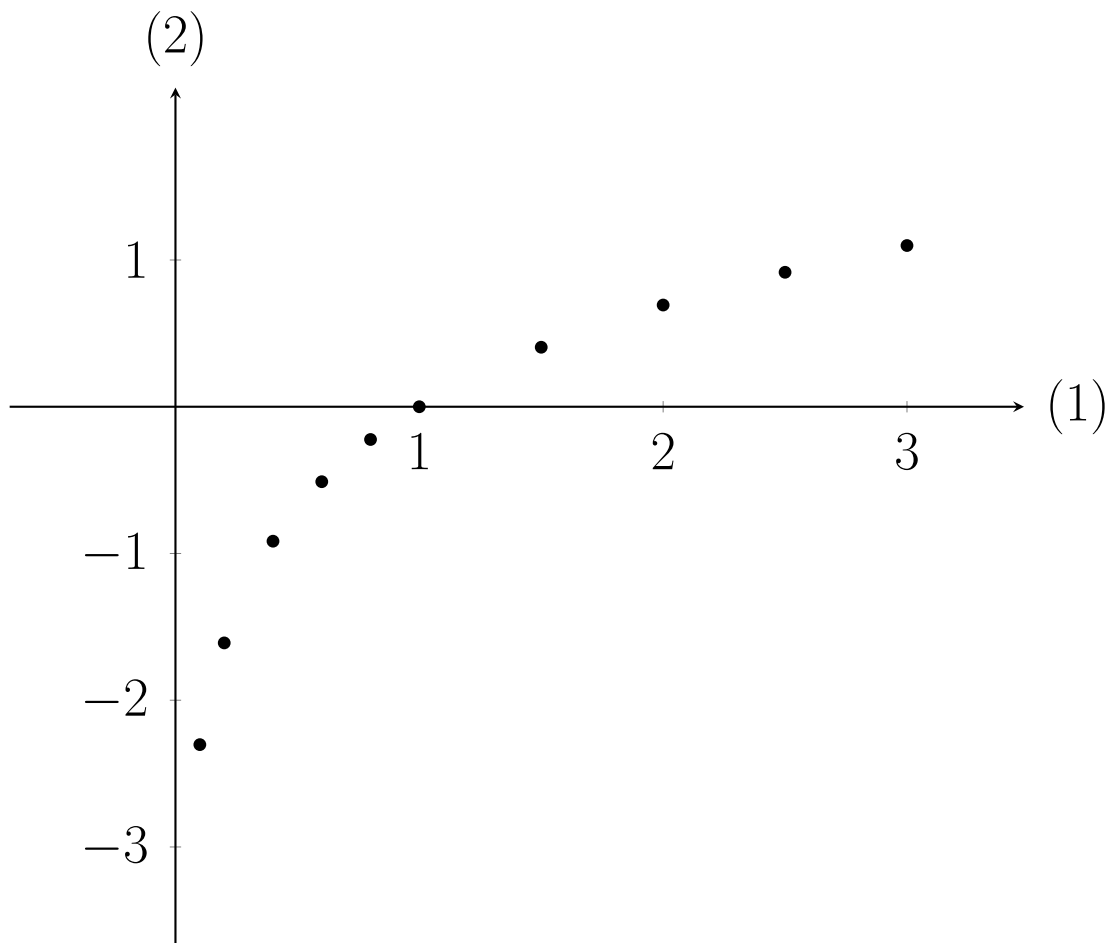
Den naturlige logaritme

Definition af den naturlige logaritme



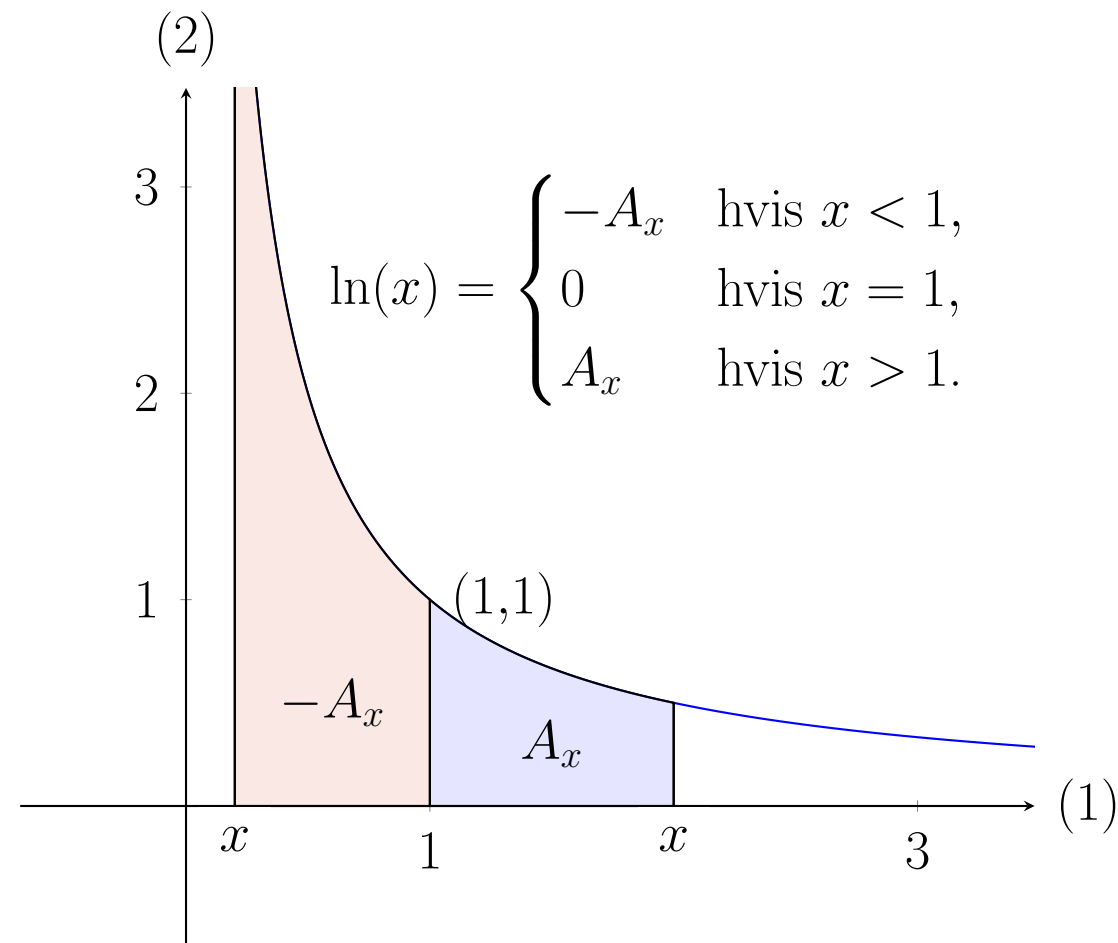
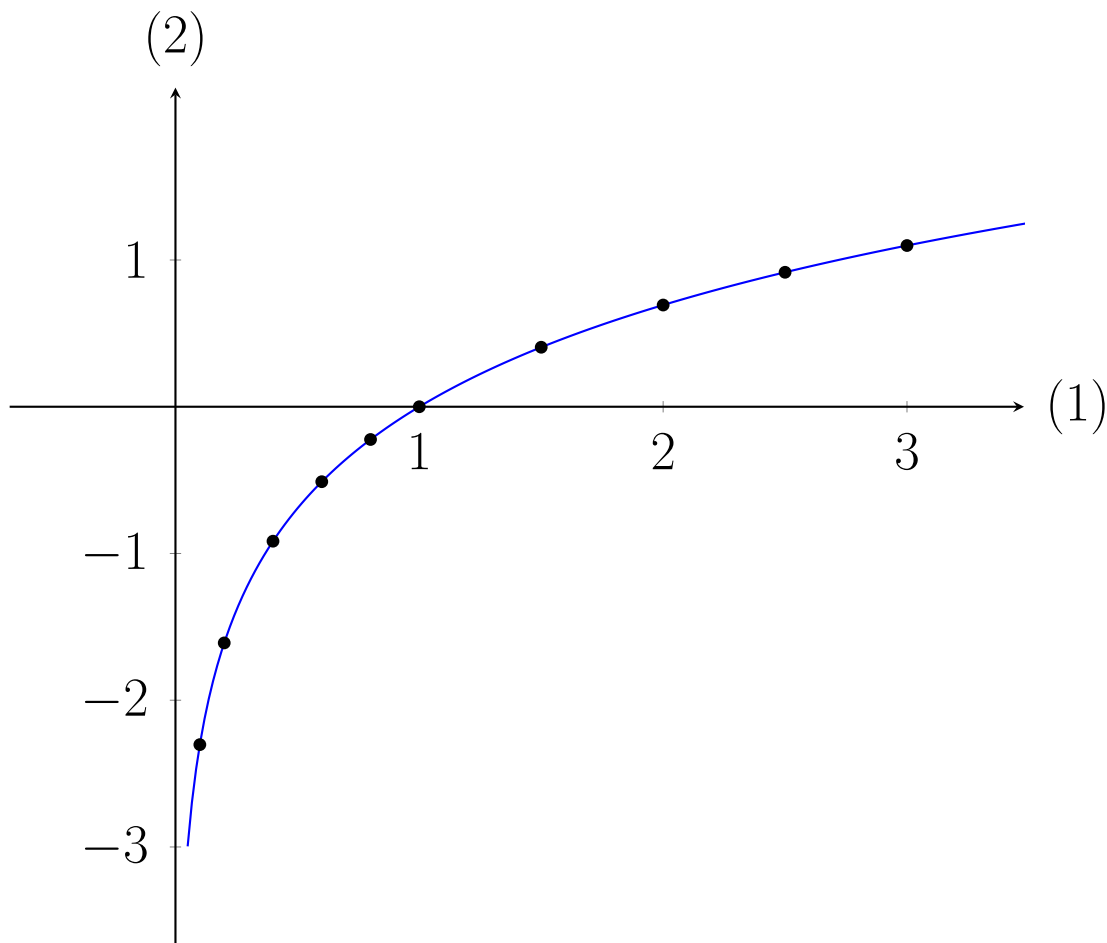
Den naturlige logaritme

Definition af den naturlige logaritme

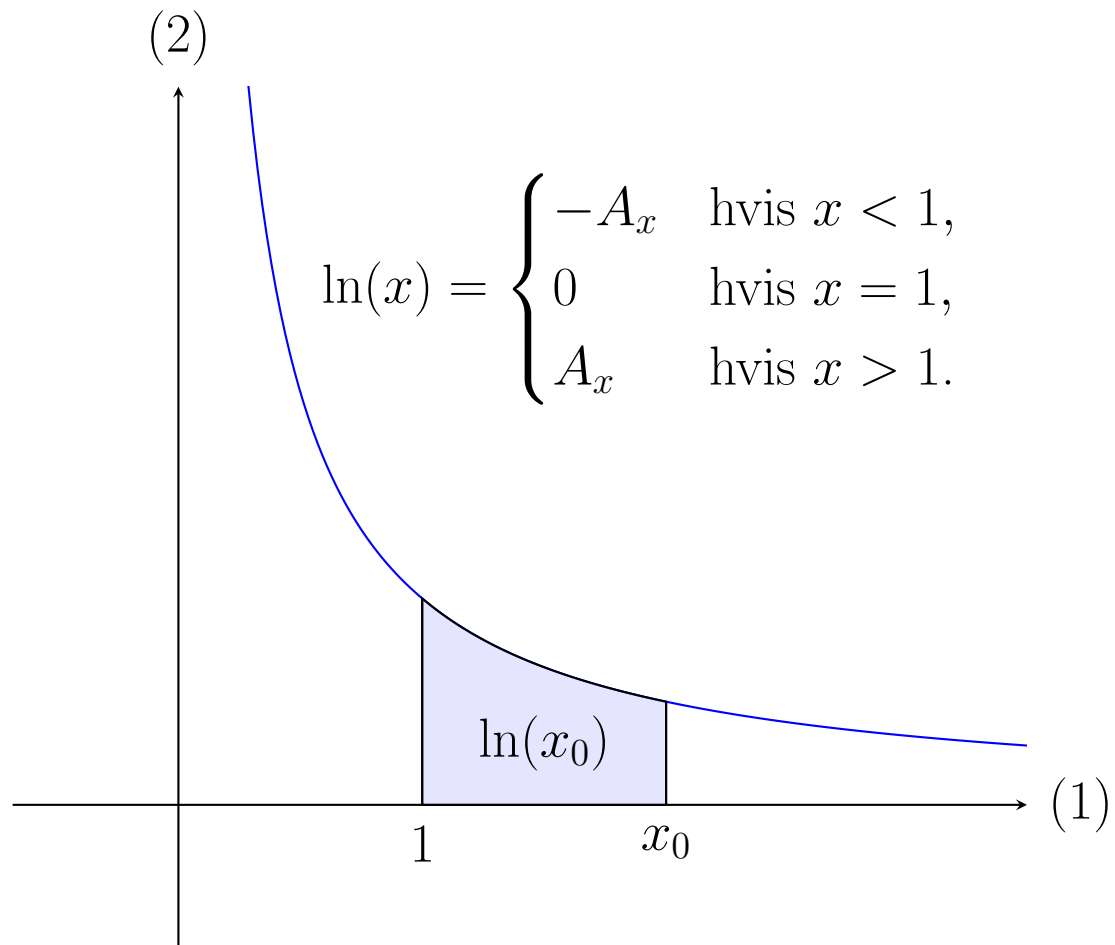


Den naturlige logaritme

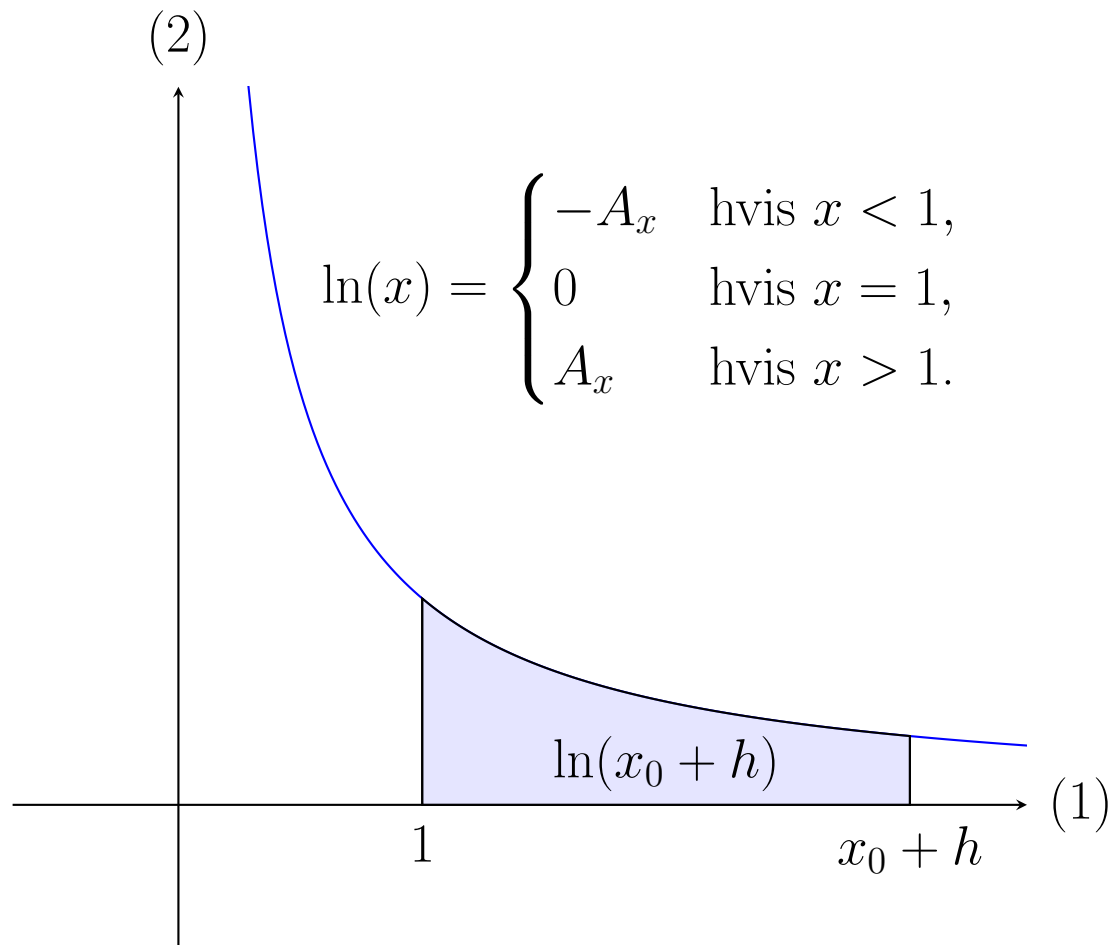
Definition af den naturlige logaritme



$$\ln'(x)$$

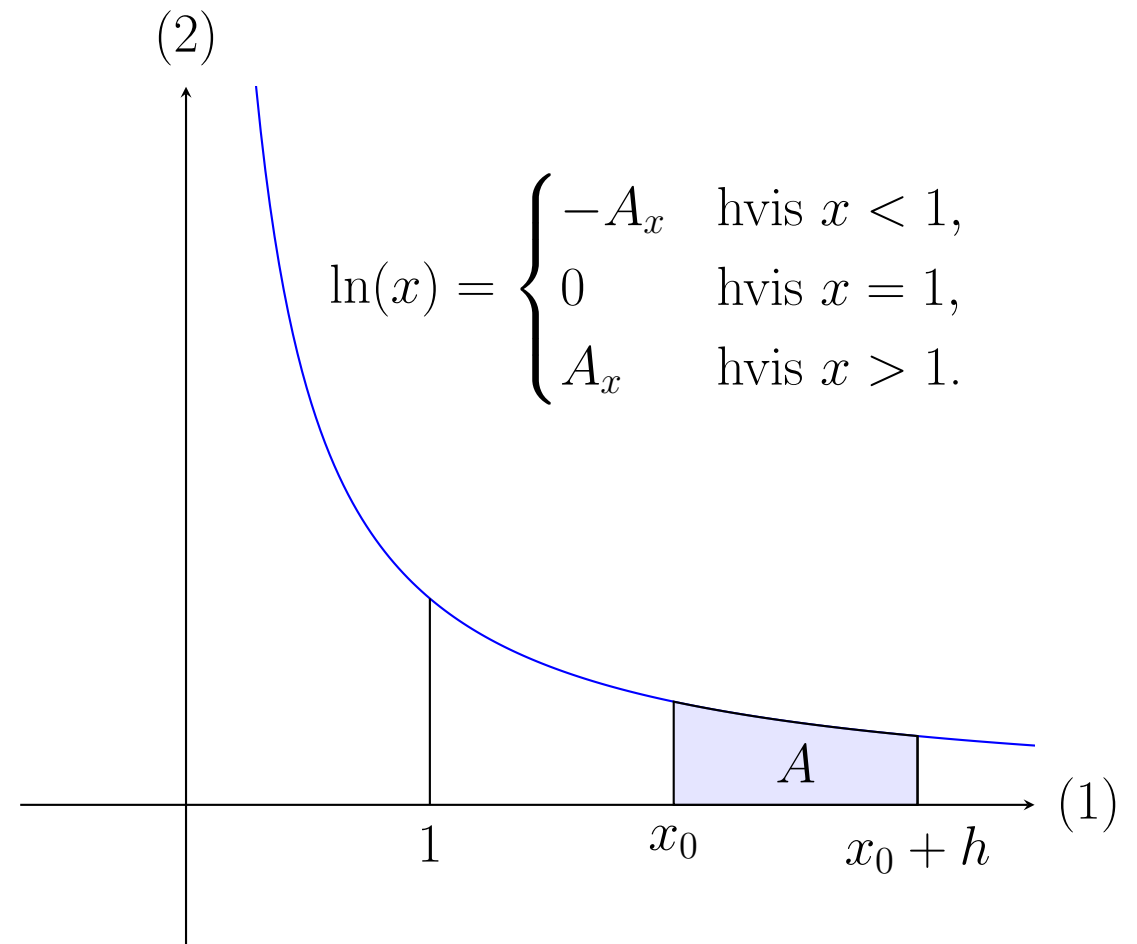


$$\ln'(x)$$



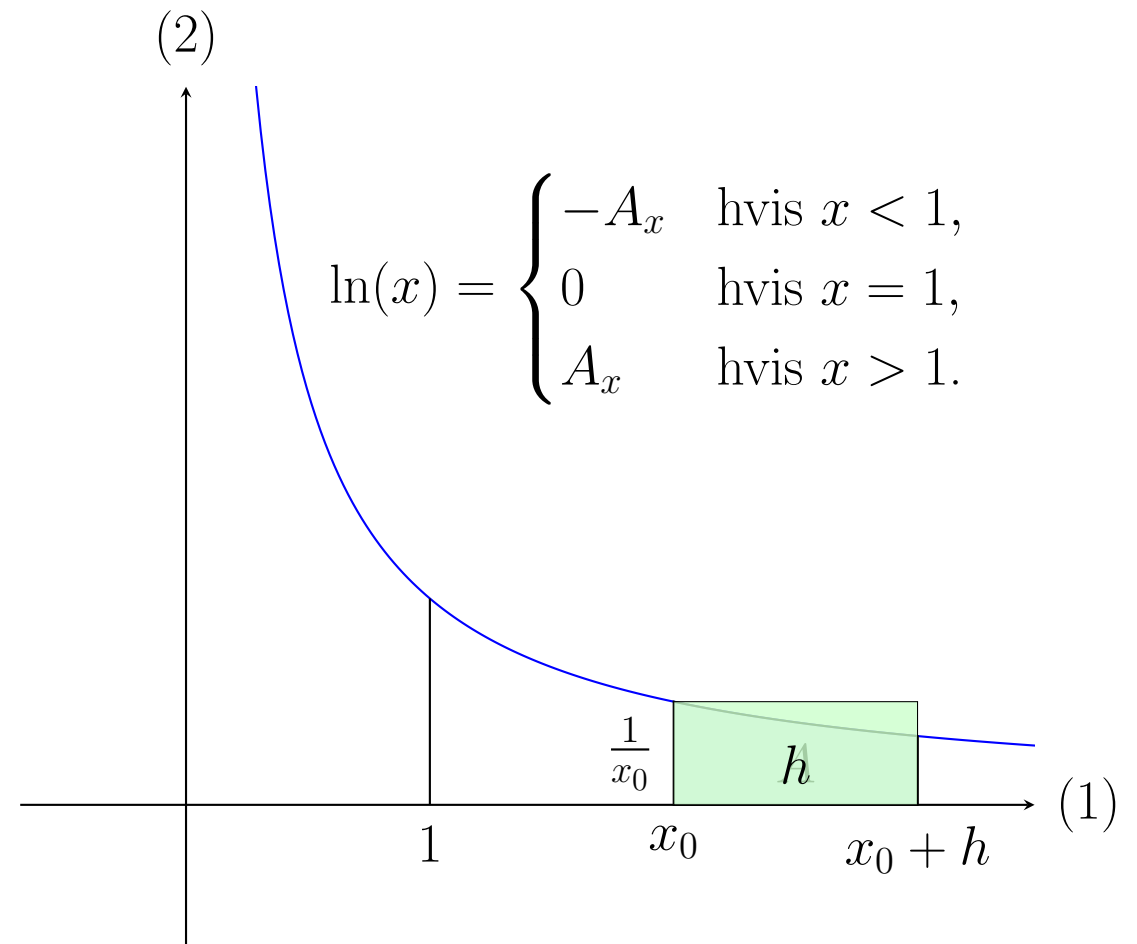
$$\ln'(x)$$

$$A = \ln(x_0 + h) - \ln(x_0)$$



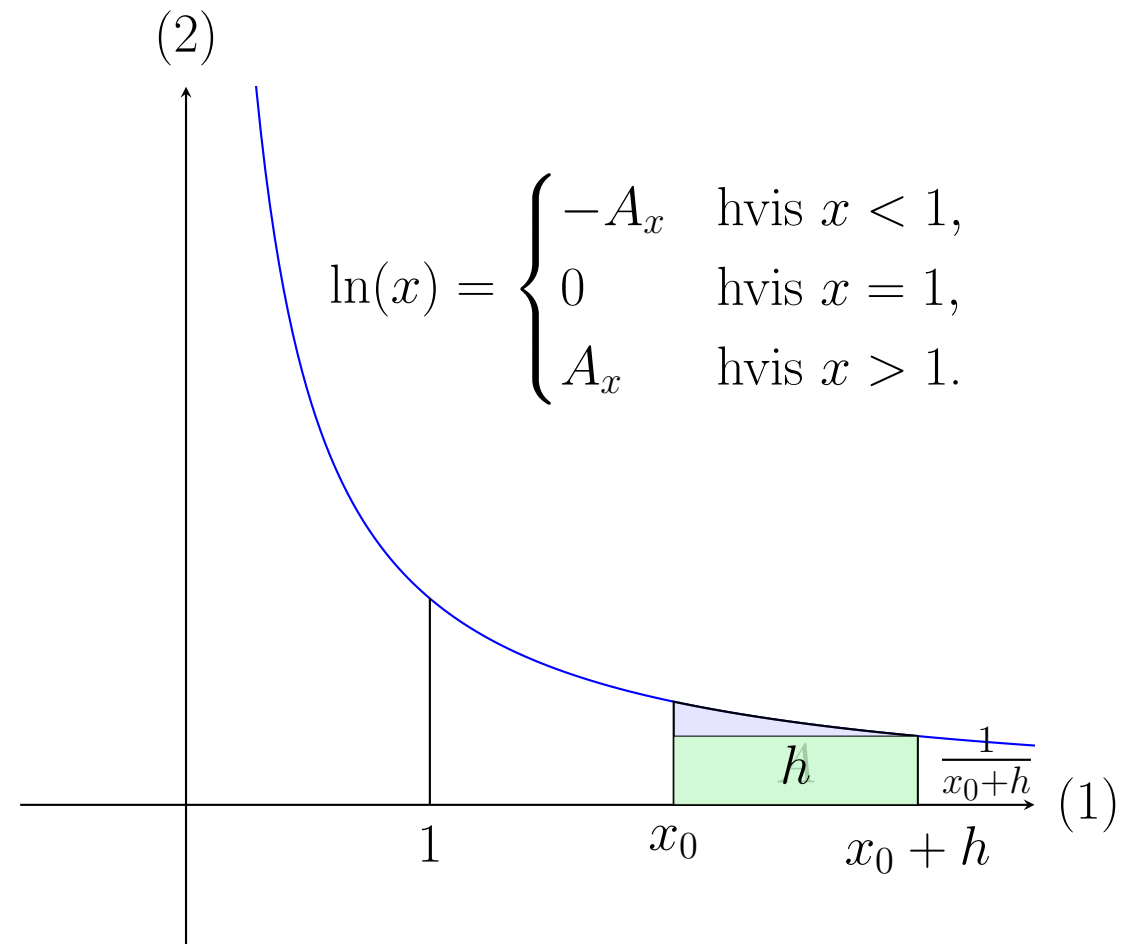
$$\ln'(x)$$

$$h \cdot \frac{1}{x_0} > A > h \cdot \frac{1}{x_0 + h}$$



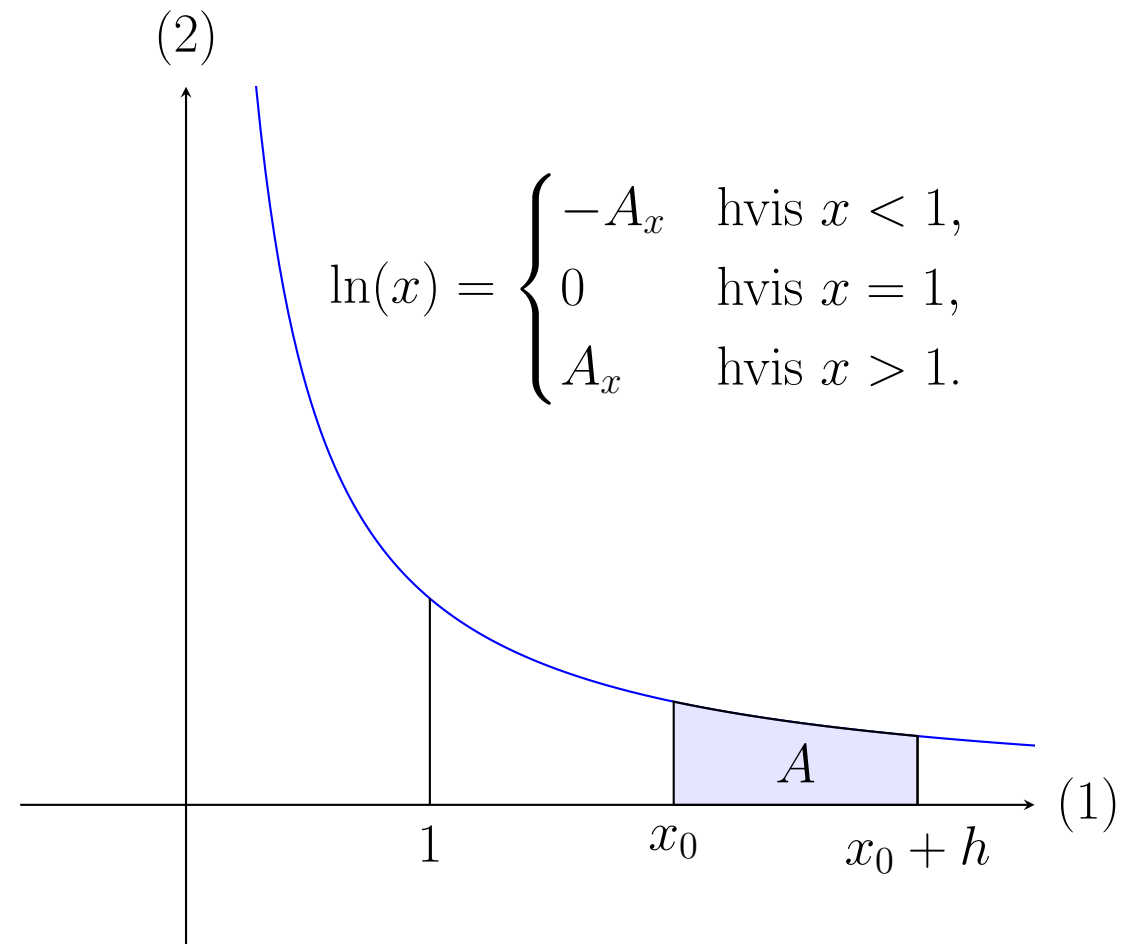
$$\ln'(x)$$

$$h \cdot \frac{1}{x_0} > A > h \cdot \frac{1}{x_0 + h}$$



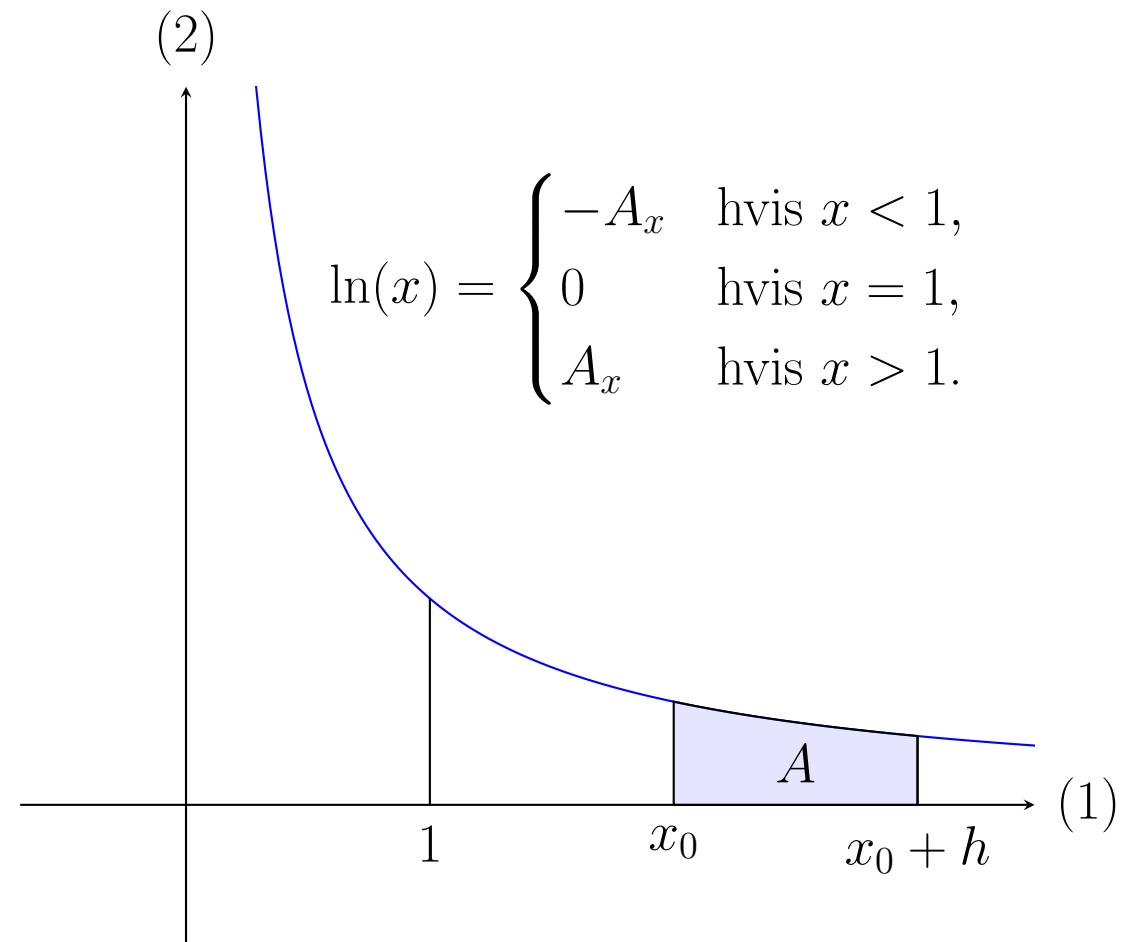
$$\ln'(x)$$

$$h \cdot \frac{1}{x_0} > \ln(x_0 + h) - \ln(x_0) > h \cdot \frac{1}{x_0 + h}$$



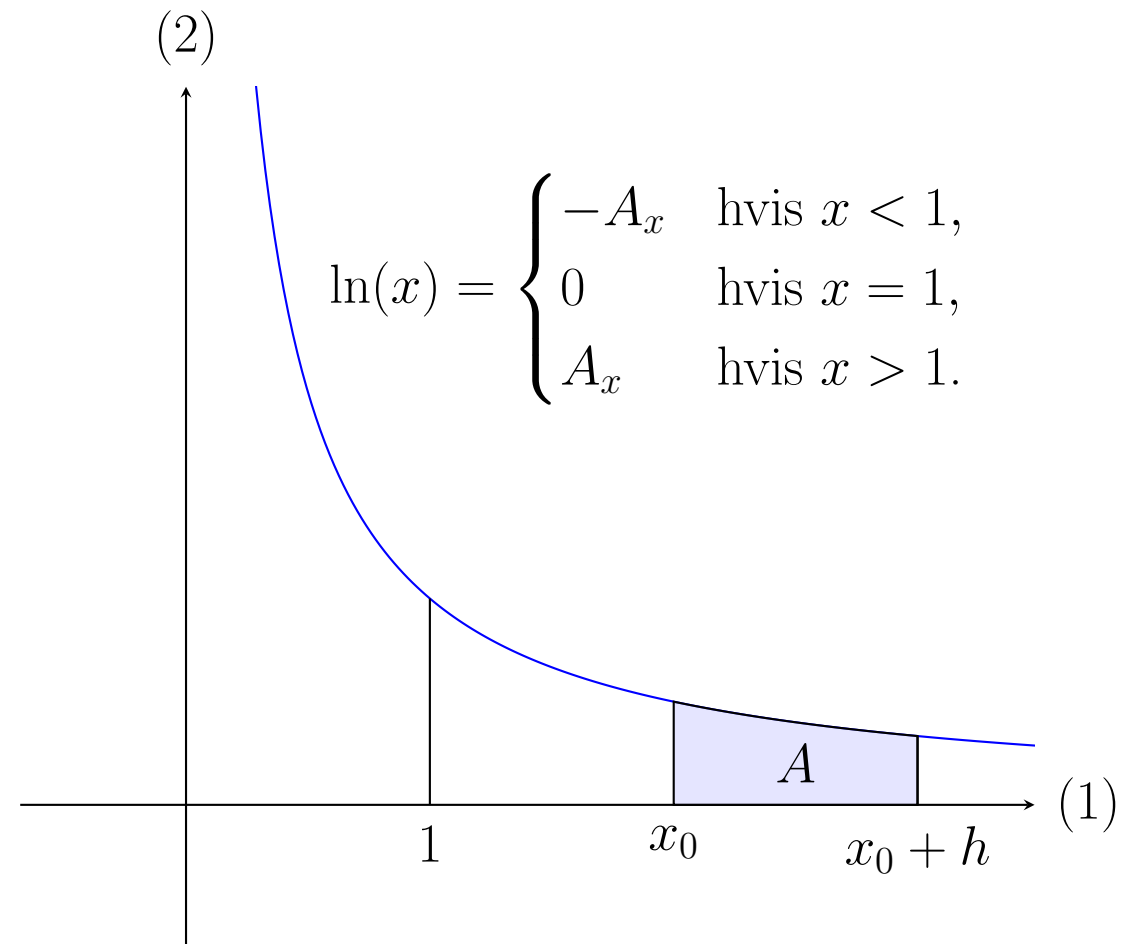
$$\ln'(x)$$

$$\frac{1}{x_0} > \frac{\ln(x_0 + h) - \ln(x_0)}{h} > \frac{1}{x_0 + h}$$



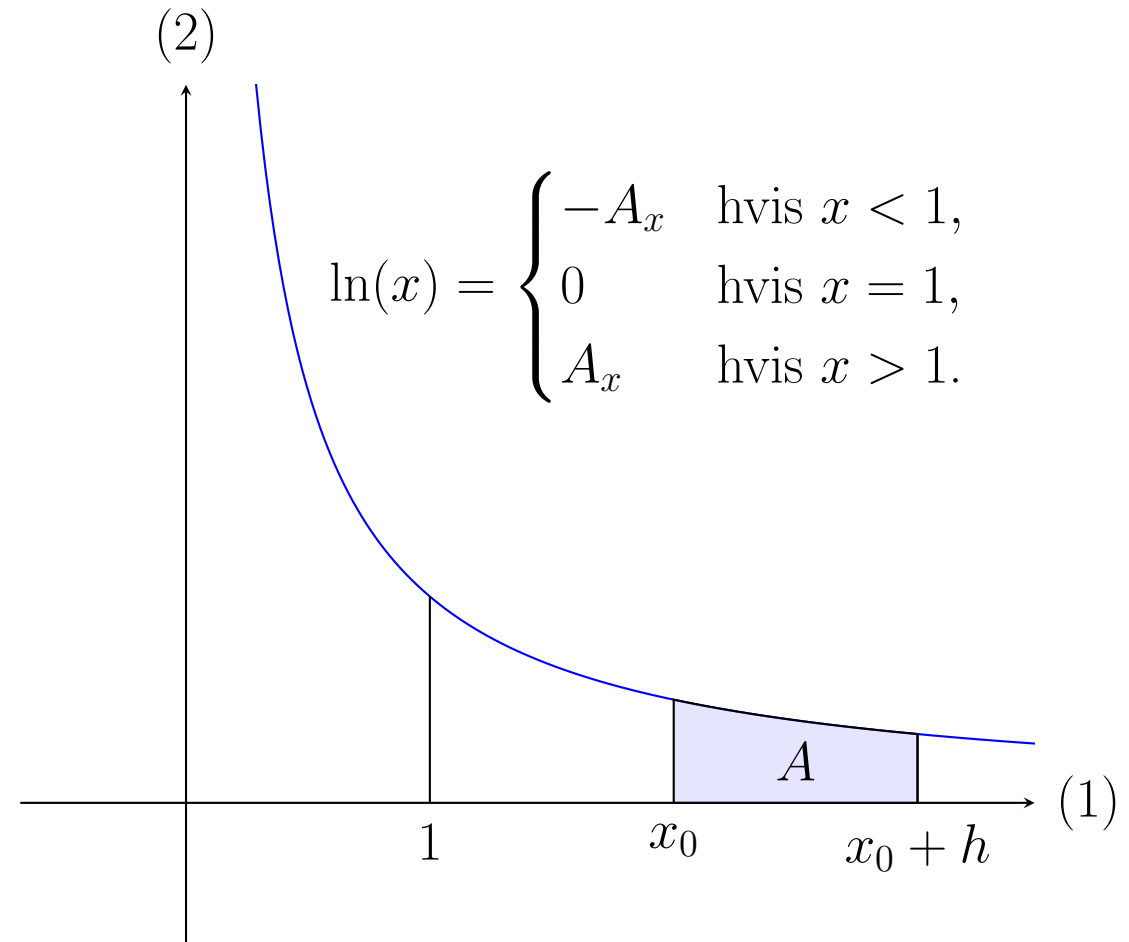
$$\ln'(x)$$

$$\lim_{h \rightarrow 0} \frac{1}{x_0} > \frac{\ln(x_0 + h) - \ln(x_0)}{h} > \frac{1}{x_0 + h}$$



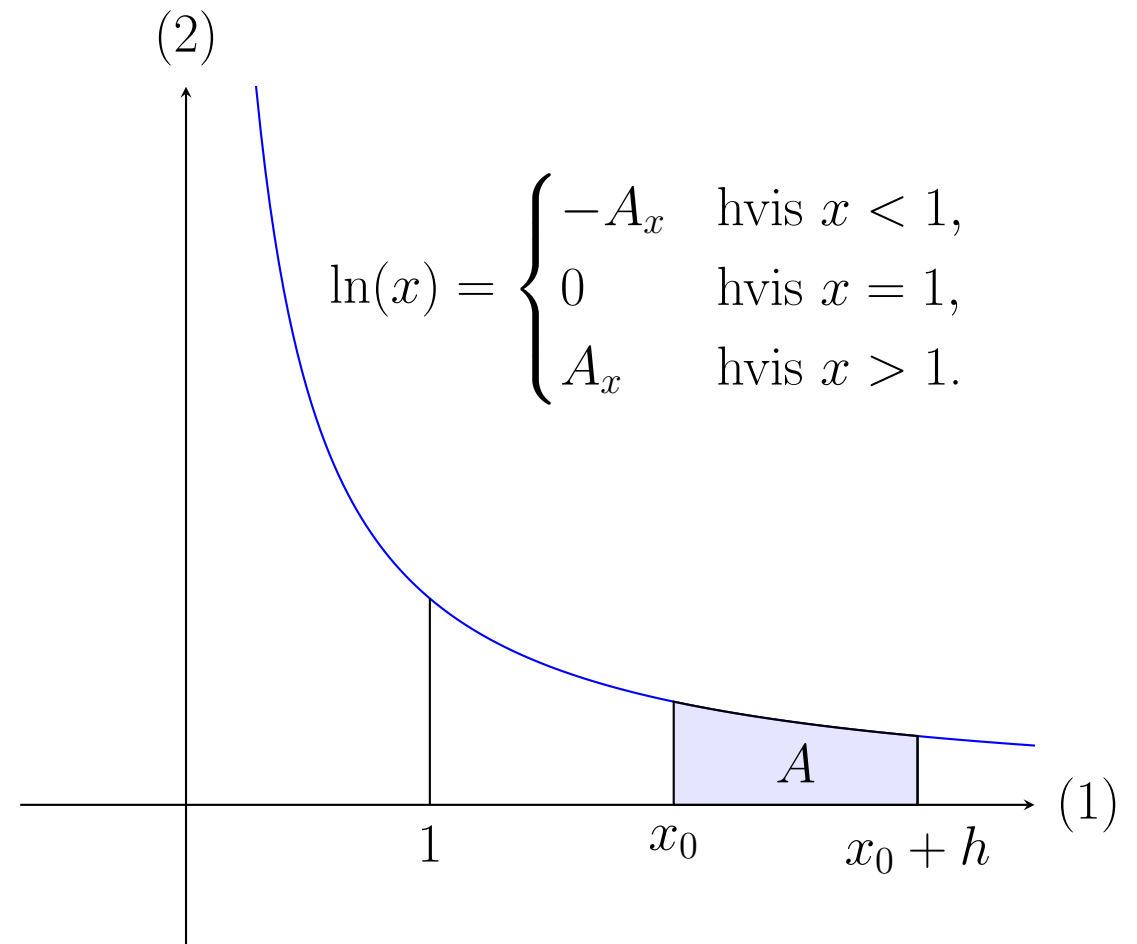
$$\ln'(x)$$

$$\lim_{h \rightarrow 0} \frac{1}{x_0} > \frac{\ln(x_0 + h) - \ln(x_0)}{h} > \frac{1}{x_0 + h} = \frac{1}{x_0}$$



$$\ln'(x)$$

$$\ln'(x) = \frac{1}{x}$$



$$\ln'(x)$$

$$\ln'(x) = \frac{1}{x}$$

f	f'	
k	0	(1)
$k \cdot x$	k	(2)
		(3)
$\frac{1}{x}$	$-\frac{1}{x^2}$	(4)
\sqrt{x}	$\frac{1}{2\sqrt{x}}$	(5)
		(6)
		(7)
		(8)
		(9)

$$\ln'(x)$$

$$\ln'(x) = \frac{1}{x}$$

f	f'	
k	0	(1)
$k \cdot x$	k	(2)
		(3)
$\frac{1}{x}$	$-\frac{1}{x^2}$	(4)
\sqrt{x}	$\frac{1}{2\sqrt{x}}$	(5)
		(6)
		(7)
$\ln(x)$	$\frac{1}{x}$	(8)
		(9)