$$\frac{dy}{dx} = f\,'(x) = y\,'$$ (Forskellige notationer for differentialkvotienten af en funktion...)

$$\frac{d}{dx}$$ (Notationen for differentialkvotienten af et udtryk - ikke en funktion...)

Den første kolonne er, når udtrykket står som en funktion:

Den anden kolonne er, når udtrykket står alene:

$f(x) = a \quad \Leftrightarrow \quad f\,'(x) = 0$	$\frac{d}{dx}a = 0$	Differentialkvotient af en konstant
$f(x) = ax \quad \Leftrightarrow \quad f\,'(x) = a$	$\frac{d}{dx}ax = a$	Differentialkvotient af en ligefrem proportionalitet
$f(x) = ax + b \quad \Leftrightarrow \quad f\,'(x) = a$	$\frac{d}{dx}ax + b = a$	Differentialkvotient af en ret linje
$f(x) = a \cdot x^n \quad \Leftrightarrow \quad f\,'(x) = a \cdot n \cdot x^{n-1}$	$\frac{d}{dx}a \cdot x^n = a \cdot n \cdot x^{n-1}$	Differentialkvotient af en potensfunktion
$f(x) = \sin(x) \quad \Leftrightarrow \quad f\,'(x) = \cos(x)$	$\frac{d}{dx}\sin(x) = \cos(x)$	
$f(x) = \cos(x) \quad \Leftrightarrow \quad f\,'(x) = -\sin(x)$	$\frac{d}{dx}\cos(x) = -\sin(x)$	
$f(x) = \tan(x) \quad \Leftrightarrow \quad f\,'(x) = \frac{1}{\cos^2(x)} = 1 + \tan^2(x)$	$\frac{d}{dx}\tan(x) = \frac{1}{\cos^2(x)} = 1 + \tan^2(x)$	
$f(x) = e^x \quad \Leftrightarrow \quad f\,'(x) = e^x$	$\frac{d}{dx}e^x = e^x$	
$f(x) = a^x \quad \Leftrightarrow \quad f\,'(x) = a^x \cdot \ln|a|$	$\frac{d}{dx}a^x = a^x \cdot \ln|a|$	
$f(x) = \ln|x| \quad \Leftrightarrow \quad f\,'(x) = \frac{1}{x}$	$\frac{d}{dx}\ln|x| = \frac{1}{x}$	
$f(x) = \log(x) \quad \Leftrightarrow \quad f\,'(x) = \frac{1}{x \cdot \ln(10)}$	$\frac{d}{dx}\log(x) = \frac{1}{x \cdot \ln(10)}$	
$f(x) = k \cdot f(x) \quad \Leftrightarrow \quad f\,'(x) = k \cdot f\,'(x)$	$\frac{d}{dx}k \cdot f(x) = k \cdot f\,'(x)$	Differentialkvotient af en funktion multipliceret med en konstant
$h(x) = f(x) + g(x) \Leftrightarrow h'(x) = f\,'(x) + g\,'(x)$	$\frac{d}{dx}f(x) + g(x) = f\,'(x) + g\,'(x)$	Differentialkvotient af summen af to (eller flere) led
$h(x) = f(x) - g(x) \Leftrightarrow h'(x) = f\,'(x) - g\,'(x)$	$\frac{d}{dx}f(x) - g(x) = f\,'(x) - g\,'(x)$	Differentialkvotient af differensen af to (eller flere) led
$h(x) = f(x) \cdot g(x) \quad \Leftrightarrow \quad h'(x) = f\,'(x) \cdot g(x) + g\,'(x) \cdot f(x)$	$\frac{d}{dx}f(x) \cdot g(x) = f\,'(x) \cdot g(x) + g\,'(x) \cdot f(x)$	Differentialkvotient af en produktfunktion
$h(x) = \frac{f(x)}{g(x)} \quad \Leftrightarrow \quad h'(x) = \frac{f\,'(x) \cdot g(x) - g\,'(x) \cdot f(x)}{(g(x))^2}$	$\frac{d}{dx}\frac{f(x)}{g(x)} = \frac{f\,'(x) \cdot g(x) - g\,'(x) \cdot f(x)}{(g(x))}$	Differentialkvotient af en brøkfunktion
$h(x) = f(g(x)) \quad \Leftrightarrow \quad h'(x) = f\,'(g(x)) \cdot g\,'(x)$	$\frac{d}{dx}f(g(x)) = f\,'(g(x)) \cdot g\,'(x)$	Differentialkvotient af en sammensat funktion (Kædereglen)