

	Navn:		Skole:	
	Klasse: 20		Dato: 29. december 2022	Fag: Matematik A

Opgave 028

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$$(x^h)' = h \cdot x^{h-1}$$

$$(x^h)' = (x^h)'$$

$$= (e^{\ln(x^h)})'$$

$$= (e^{h \cdot \ln(x)})'$$

$$= e^{h \cdot \ln(x)} \cdot h \cdot \frac{1}{x}$$

$$= x^h \cdot h \cdot \frac{1}{x}$$

$$= h \cdot x^h$$

$$(x^h)' = h \cdot x^{h-1}$$

$$(f(g(x)))' = f'(g) \cdot g'$$

$$\frac{x^a}{x^b} = x^{a-b}$$