

# Calculus Symbols

$$\lim_{x \rightarrow a} f(x)$$

limit

$$\epsilon$$

epsilon

$$y'$$

derivative

$$y''$$

second  
derivative

$$y^{(n)}$$

$n^{\text{th}}$  derivative

$$\frac{dy}{dx}$$

derivative

$$\frac{d^2y}{dx^2}$$

second  
derivative

$$\frac{d^n y}{dx^n}$$

$n^{\text{th}}$  derivative

$$\dot{y}$$

time derivative

$$\ddot{y}$$

time second  
derivative

$$D_x y$$

derivative

$$D_x^2 y$$

second  
derivative

$$\frac{\partial f(x,y)}{\partial x}$$

partial  
derivative

$$\int$$

integral

$$\iint$$

double  
integral

$$\iiint$$

triple  
integral

$$\oint$$

closed line  
integral

$$\oiint$$

closed surface  
integral

$$\iiint$$

closed volume  
integral

$$i$$

imaginary unit

$$z^*$$

complex  
conjugate

$$\bar{z}$$

complex  
conjugate

$$\vec{x}$$

vector

$$\hat{x}$$

unit vector

$$x * y$$

convolution

$$\mathcal{L}$$

laplace  
transform

$$\mathcal{F}$$

fourier  
transform

$$\delta$$

delta function

# Calculus Graphics Numbers And Symbols

**Thomas Ewing French, Charles J. Vierck**

## **Calculus Graphics Numbers And Symbols:**

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**Proceedings of the ... International Conference on Technology in Collegiate Mathematics**, 1995      *Nature* Sir Norman Lockyer, 1915      *Calculus, Graph, Numbers & Symbols* Ostebee, 1996-08-01      **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2013-12-20

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solution thus 3 kg kg of ceramic the reactor volume is vr 12 blocks h 5 kg ceramic block 0 003 m<sup>3</sup> kg ceramic 4h 0 72 m<sup>3</sup>

answer problem 13 12 continued 1 d the reactor must contain a hot solution of sodium

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