Derivatives

$(\bar{c})=0, c=constant.$
$(\bar{x})=1$
$(\bar{x^n})=n\,x^{(n-1)}$
$[\bar{\frac{1}{x}}]=\frac{-1}{x^2}, [\frac{1}{x}]^{(n)}=(-1)^n \frac{n!}{(x^{(n+1)})}$
$(\bar{\sqrt{x}})=\frac{1}{(2\sqrt{x})}$
$(\bar{\sqrt{x}})=\frac{1}{(2\sqrt{x})}$
$(\bar{\sqrt[n]{x}})=\frac{1}{(n\sqrt[n]{x^{(n-1)}})}$
$(\bar{e^x})=e^x, (\bar{e^u})=e^u\,.\bar{u}$
$(\bar{a^x})=a^x\,\mathbf{ln}\,a$
$(\bar{\mathbf{ln}}\,x)=\frac{1}{x}, (\mathbf{ln}\,x)^{(n)}=\frac{(-1)^n*(n-1)!}{x^n}$
$(\bar{\mathbf{log}}_a\,x)=\frac{1}{x}\mathbf{log}_a\,e=\frac{1}{(x\,\mathbf{ln}\,a)}$
$(\bar{\mathbf{sin}}\,x)=\mathbf{cos}\,x, (\mathbf{sin}\,ax)^{(n)}=a^n\,\mathbf{sin}[ax+n\frac{\pi}{2}]$
$(\bar{\mathbf{cos}}\,x)=-\mathbf{sin}\,x, (\mathbf{cos}\,ax)^{(n)}=a^n\,\mathbf{cos}[ax+n\frac{\pi}{2}]$
$(\bar{\mathbf{tan}}\,x)=\frac{1}{(\mathbf{cos}^2\,x)}=sec^2\,x$
$(\bar{\mathbf{cot}}\,x)=\frac{-1}{(\mathbf{sin}^2\,x)}=-cosec^2\,x$