* \frac{d}{dz}\operatorname{Li}_n(z)=\frac{\operatorname{Li}_{n-1}(z)}{z}\,\!
* \operatorname{Li}_{1}(z)=\sum_{k=1}^\infty \frac{z^k}{k}=-\ln(1-z)\!
* \operatorname{Li}_{0}(z)=\sum_{k=1}^\infty z^k=\frac{z}{1-z}\!
* \operatorname{Li}_{-1}(z)=\sum_{k=1}^\infty k z^k=\frac{z}{(1-z)^2}\,\!
* \operatorname{Li}_{-2}(z)=\sum_{k=1}^\infty k^2 z^k=\frac{z(1+z)}{(1-z)^3}\,\!
* \sum_{k=0}^\infty \frac{z^k}{k!} = e^z\,\!
* \sum_{k=0}^\infty k\frac{z^k}{k!} = z e^z\,\! \sum_{k=0}^\infty k^2 \frac{z^k}{k!} = (z + z^2) e^z\,\!
* \sum_{k=0}^\infty k^3 \frac{z^k}{k!} = (z + 3z^2 + z^3) e^z\,\!
* \sum_{k=0}^\infty k^4 \frac{z^k}{k!} = (z + 7z^2 + 6z^3 + z^4) e^z\,\!
* \int\sin^2 {ax}\;\mathrm{d}x = \frac{x}{2} - \frac{1}{4a} \sin 2ax +C= \frac{x}{2} - \frac{1}{2a} \sin ax\cos ax +C\!