$$\left(\chi^2\right)' = 2\chi$$

$$\left(\frac{1}{X^{2}}\right)' = \left(X^{-2}\right)' = \left(-2\right)X^{-2-1} = \left(-2\right)X^{-3} = -\frac{2}{X^{2}}$$

$$(x)' = (x^{\frac{1}{2}})' = \frac{1}{2} x^{1-\frac{1}{2}} = \frac{1}{2} x^{-\frac{1}{2}} = \frac{1}{2|x|}$$

$$\left(\frac{1}{|\chi|}\right)' = \left(\chi^{-\frac{1}{2}}\right)' = \left(-\frac{1}{2}\right)\chi^{-\frac{1}{2}-1} = \left(-\frac{1}{2}\right)\chi^{-\frac{2}{2}} = -\frac{1}{2\sqrt{\chi^{3}}}$$

Onben:

[4.2] Harium monglogthe,

$$\left(\frac{1}{1}\right)_{1} = \left((x+1)_{1} - \frac{5}{1}\right) = \left(-\frac{5}{1}\right) \left(x+1)_{1} - \frac{5}{1} - 1 \left(x+1\right) =$$

$$= \left(-\frac{1}{2}\right)\left(\chi_{+1}\right)^{-\frac{3}{2}}\left(\left(\chi_{+}(1)\right)^{2}\right) = \left(-\frac{1}{2}\right)\left(\chi_{+1}\right)^{-\frac{3}{2}}\left(1+0\right) = \left(-\frac{1}{2}\right)\left(\chi_{+1}\right)^{-\frac{3}{2}} =$$

$$= -\frac{1}{2\sqrt{(\chi+1)^3}}$$

$$\left(\frac{1}{\sqrt{\ln x}}\right)' = \left(\ln x\right)^{-\frac{1}{2}}\right)' = \left(-\frac{1}{2}\right)\left(\ln x\right)^{-\frac{1}{2}-1}\left(\ln x\right)' = \left(-\frac{1}{2}\right)\sin^{\frac{3}{2}}x \quad \text{with} \quad x = 1$$

$$\left(\frac{1}{|X+I|}\right) = -\frac{1}{2|X+I|^2} \left(\frac{1}{\sqrt{s_{1}Nx}}\right) = -\frac{cosx}{2\sqrt{s_{1}N^3x}}$$