

$$\frac{1}{\sqrt{1-2xt+t^2}} \stackrel{\text{Leg}}{=} \sum_n^{\mathbb{N}} t^n \genfrac{\{}{\}}{0pt}{}{n+1|-n}{1-x|2}$$

$${}^{-1}|1\genfrac{\{}{\}}{0pt}{}{2}{m}\mathbb{C}:dx$$

$${}^{-1}|1\genfrac{\{}{\}}{0pt}{}{2}{m}\mathbb{C} \leftarrow {}^{-1}|1\genfrac{\{}{\}}{0pt}{}{2}{m}\mathbb{C}$$

$$\left(1-x^2\right)\mathfrak{U}-2x\mathfrak{U}+n\left(n+1\right)\mathfrak{N}=0\;\mathrm{Leg}$$

$$\left(x^2-1\right)\mathfrak{U}+2x\mathfrak{U}+\frac{\mu^2}{1-x^2}=\nu\left(\nu+1\right)\mathfrak{N}$$

$$\genfrac{\{}{\}}{0pt}{}{-n|n+1}{1-x|2}_1 = \frac{2^n(\,1/2)_n}{n!}\genfrac{\{}{\}}{0pt}{}{-n/2:\,1/2-n/2}{1/2}$$

$$\genfrac{\{}{\}}{0pt}{}{-n-1}{x-1}\genfrac{\{}{\}}{0pt}{}{n+1|n+1}{2}{1-x}{2n+2}=\genfrac{\{}{\}}{0pt}{}{-n-1}{x+1}\genfrac{\{}{\}}{0pt}{}{n+1|n+1}{2}{1+x}{2n+2}$$

$$x^{-n-1}\genfrac{\{}{\}}{0pt}{}{n/2+1/2|n/2+1}{x^{-2}}_{n+3/2}={}^xQ_n$$

$$\left(\frac{1+x}{1-x}\right)^{\mu/2}\genfrac{\{}{\}}{0pt}{}{-\nu_+|\nu}{1-x|2}_{1-\mu}={}^xP_\nu^\mu$$

$$\left(\frac{1+x}{1-x}\right)^{-\mu/2}\genfrac{\{}{\}}{0pt}{}{-\nu_+|\nu}{1-x|2}_{1+\mu}$$