Math Differentiator

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Annotation

This is auto-generated by Differentiator document. Don't try to change .tex file directly.

Original expression

$$\cosh\left(x+1\right)+\arcsin\left(\frac{\left(x^{2}+1\right)}{x}\right)+\sin\left(x\right)\cdot\ln\left(x+2\right)$$

After differentiation

$$\sinh\left(x+1\right)\cdot\left(1+0\right)+\frac{\frac{\left(\left(1\cdot 2\cdot x^{2-1}+0\right)\cdot x-\left(\left(x^{2}+1\right)\cdot 1\right)\right)}{x\cdot x}}{\left(1-\left(\left(\frac{x^{2}+1}{x}\right)^{2}\right)\right)^{0.5}}+\cos\left(x\right)\cdot 1\cdot\ln\left(x+2\right)+\sin\left(x\right)\cdot\frac{\left(1+0\right)}{\left(x+2\right)}$$

After simplification

$$\sinh\left(x+1\right)+\frac{\frac{\left(2\cdot x\cdot x-\left(x^{2}+1\right)\right)}{x\cdot x}}{\left(1-\left(\left(\frac{x^{2}+1}{x}\right)^{2}\right)\right)^{0.5}}+\cos\left(x\right)\cdot\ln\left(x+2\right)+\sin\left(x\right)\cdot\frac{1}{\left(x+2\right)}$$