

>
$$z := 3 \cdot \cosh(2 \cdot t) - I \cdot 2 \cdot \sinh(2 \cdot t)$$

 $z := 3 \cosh(2 t) - 2 \operatorname{I} \sinh(2 t)$ (10)

>
$$EQCure := z \rightarrow solve(x = evalc(Re(z)), t) + solve(y - evalc(Im(z)), t) = 0$$

 $EQCure := z \rightarrow solve(x = evalc(\Re(z)), t) + solve(y - evalc(\Im(z)), t) = 0$ (11)

> *EQCure*(*z*)

$$\frac{1}{2}\operatorname{arccosh}\left(\frac{1}{3}x\right) - \frac{1}{2}\operatorname{arcsinh}\left(\frac{1}{2}y\right) = 0$$
 (12)

> restart;

 $\rightarrow v := \exp(-y)\cos(x)$

$$v := e^{-y} \cos(x) \tag{13}$$

$$R := v \rightarrow diff(v, y) + I \cdot diff(v, x)$$

$$R := v \rightarrow \frac{\partial}{\partial y} v + I\left(\frac{\partial}{\partial x} v\right)$$
(13)

 $\overline{\hspace{1cm}}$ simplify $(R(v), \{x + I \cdot y = z\})$

(15)

$$\frac{-1\sin(x) - \cos(x)}{e^{|x-1z|}}$$
 (15)
$$\frac{-1\sin(x) - \cos(x)}{f(z) - 1e^{-1(x-z)}}$$
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 (25)

(1)

$$\frac{1}{2} \frac{\pi \left(\sqrt{5} \sqrt{3} + 5\right) \sqrt{2}}{\sqrt{3} + \sqrt{5}}$$

$$> \int_{-infinity}^{+infinity} \frac{1}{\left(x^2 + 4\right)^2 \cdot \left(x^2 + 9\right)} dx$$

$$\frac{7}{1200} \pi$$

$$> simplify
$$\int_{-infinity}^{+infinity} \frac{\left(x^3 - 2\right) \cdot \cos\left(\frac{x}{2}\right)}{\left(x^2 + 1\right)^2} dx$$

$$-\frac{3}{2} \pi \left(\cosh\left(\frac{1}{2}\right) - \sinh\left(\frac{1}{2}\right)\right)$$
(28)$$