$$I = \frac{1}{1-2} \left(e^{(1-2)t} \cos t \right) + \frac{1}{1-2} \left(e^{(1-2)t} \cot t \right)$$

$$\left(\frac{1}{1-2} + \frac{1}{1-2} \right) I = \frac{1}{1-2} \left(e^{(1-2)t} \cos t \right) + \frac{1}{1-2} \left(e^{(1-2)t} \cot t \right)$$

$$\left(\frac{1}{1-2} \right)^{2} + \frac{1}{1-2} I = \frac{1}{1-2} \left(e^{(1-2)t} \cos t \right) + \frac{1}{1-2} \left(e^{(1-2)t} \cot t \right)$$

$$I = \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(e^{(1-2)t} \cos t \right) + \left(e^{(1-2)t} \cot t \right)$$

$$1 \le \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(e^{(1-2)t} \cos t \right) + \left(e^{(1-2)t} \cot t \right)$$

$$1 \le \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(e^{(1-2)t} \cos t \right) + \left(e^{(1-2)t} \cot t \right)$$

$$1 \le \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(e^{(1-2)t} \cos t \right) + \left(e^{(1-2)t} \cot t \right)$$

$$1 \le \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(\frac{1}{1-2} \right) \left(e^{(1-2)t} \cos t \right) + \left(e^{(1-2)t} \cot t \right)$$

$$1 \le \frac{1}{1-2} \left(\frac{1}{1-2} \right) \left(\frac$$