

$$= \left((\ln \cos(x))' \cdot \sinh(x) + (\ln \cos(x)) \cdot (\sinh(x))' \right) \cdot e^{\ln \cos(x)}$$

$$= \left(\cos(x)' \cdot \ln'(\cos(x)) \cdot \sinh(x) + \ln \cos(x) \cdot \cos(x) \right) \cdot e^{\ln \cos(x) \cdot \sinh(x)} =$$

$$= \left(-\sinh(x) \cdot \frac{1}{\cos(x)} \cdot \sinh(x) + \ln \cos(x) \cdot \cos(x) \right) \cdot e^{\ln \cos(x) \cdot \sinh(x)} =$$

$$= \left(-\frac{\sinh^2(x)}{\cos(x)} + \ln \cos(x) \cdot \cos(x) \right) \cdot e^{\ln \cos(x) \cdot \sinh(x)} =$$

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