

$$3) \int \frac{1}{\sqrt{4^2 - u^2}}$$

$$\frac{1}{3} \cdot \frac{1}{4} \cdot \arcsen\left(\frac{u}{4}\right) + C$$

$$\frac{1}{12} \arcsen\left(\frac{x^3}{4}\right) + C$$

$$3) \int (\cot(x) \cdot \ln(\operatorname{sen}(x))) dx, \quad u = \ln(\operatorname{sen}(x))$$

$$\int u \, du \quad du = -\cot(x)$$

$$= \frac{u^2}{2} + C$$

$$= \frac{\ln^2(\operatorname{sen}(x))}{2} + C //$$