1. $\int \frac{e^{x}}{e^{2 x}+2 e^{x}+17} d x=$
2. $\int \frac{\sin (x)}{\cos ^{2}(x)+\cos (x)} d x=$
3. $\int_{0}^{1 / 2} \frac{\sin ^{-1}(x)}{\sqrt{1-x^{2}}} d x=$
4. $\int e^{x} \cot ^{3}\left(e^{x}\right) d x=$
