Worksheet 8
Trigonometric Substitution   MATH 2205, Fall 2018

Evaluate the given integrals.

1. $\displaystyle \int \frac{x}{\sqrt{x^2 + 36}}\, dx$

2. $\displaystyle\int \frac{1}{\sqrt{x^2 - 4}}\, dx$

3. $\displaystyle\int \frac{x}{\sqrt{36 - x^2}}\, dx$

4. $\int x\sqrt{16 - 4x^2}\,dx$