

some standard trig substitution problems

1.

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

2.

$$\int \frac{1}{\sqrt{4x^2 + 1}} dx$$

3.

$$\int \frac{1}{\sqrt{x^2 - 9}} dx$$

4.

$$\int \frac{1}{\sqrt{9 - x^2}} dx$$