

Calculus Class Worksheet #5 Unit 9 \_\_\_\_\_

Integrate each of the following.

1.  $\int \frac{dx}{\sqrt{9-x^2}} = \underline{\hspace{2cm}}$

2.  $\int \frac{x^2 dx}{\sqrt{9-x^2}} = \underline{\hspace{2cm}}$

3.  $\int \sqrt{9-x^2} dx = \underline{\hspace{2cm}}$

4.  $\int \frac{dx}{\sqrt{4-9x^2}} = \underline{\hspace{2cm}}$

5.  $\int \frac{dx}{x^2+1} = \underline{\hspace{2cm}}$

6.  $\int \frac{dx}{4+9x^2} = \underline{\hspace{2cm}}$