

Directions: Show all work on a separate sheet of paper for full credit.

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

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

3.  $\int_0^3 \frac{x}{\sqrt{36-x^2}} dx$

4.  $\int_2^3 \frac{1}{(x^2-1)^{3/2}} dx$

5.  $\int \sqrt{4-9x^2} dx$

6.  $\int_0^{1/2} x\sqrt{1-4x^2} dx$

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