

Name _____

1. (2 points) Evaluate the following integral.

$$\int 6x\sqrt{x^2 + 4} dx$$

2. (3 points) Evaluate the following integral.

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

3. (3 points) Evaluate the following integral.

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

4. (2 points) Evaluate the following integral.

$$\int \frac{x^3}{\sqrt{x^2 + 1}} dx$$