

Name: _____
Spring 2018

MAT 296: HW 5
Due: 02/21

Problem 1: Integrate the following:

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

Problem 2: Integrate the following:

$$\int \frac{3}{x^2 \sqrt{x^2+9}} dx$$

Problem 3: Integrate the following:

$$\int \frac{x^2 + 5x + 5}{x + 3} dx$$

Problem 4: Integrate the following:

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

Problem 5: Integrate the following:

$$\int \frac{x+4}{x(x-2)^2} dx$$

Problem 6: Integrate the following:

$$\int \frac{2x^2 - 2x + 5}{(x - 1)(x^2 + 4)} dx$$