

**MATH 2
HOMEWORK**

Find the following:

(1)

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

(2)

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

(3)

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

The quiz problems were

(1)

$$\int \frac{\sin \sqrt{x}}{\sqrt{x}} dx$$

(2)

$$\int \frac{\ln x}{x^2} dx$$

(3)

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

(4)

$$\int \frac{4}{16 + x^2} dx$$

(5)

$$\int x \cos \frac{x}{4} dx$$