

## Lecture 28: Worksheet

### Substitution

1

$$\int \sin(2x + 3) dx$$

2

$$\int \frac{1}{(x + 8)^5} dx$$

3

$$\int \frac{\log(5x)}{x} dx$$

4

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

5

$$\int \frac{e^x}{(e^x + 5)^2} ; dx$$

6

$$\int x e^{x^2} ; dx$$