

## Using the Substitution Rule

Using the substitution rule, find the value of the following integrals:

$$1. \int 2x(x^2 + 3)^4 dx$$

$$2. \int \frac{(\ln x)^2}{x} dx$$

$$3. \int_0^1 (3x - 2)^3 dx$$

$$4. \int_0^7 \sqrt{4 + 3x} dx$$

$$5. \int \frac{\sin x}{1 + \cos^2 x} dx$$