

### Antiderivatives 5

Find the indicated antiderivative. Check your answers.

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

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

$$3. \int \frac{x^3}{1 + x^4} dx =$$

$$4. \int \frac{e^x + 2}{e^x + 2x + 7} dx =$$

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

$$6. \int \frac{2x}{(x^2 + 1)^2} dx =$$

$$7. \int \frac{\cos x}{(1 + \sin x)^2} dx =$$

$$8. \int \frac{x^3}{(1 + x^4)^3} dx =$$

$$9. \int \frac{e^x + 2}{(e^x + 2x + 7)^3} dx =$$

$$10. \int \frac{3}{(2x + 5)^4} dx =$$