

### Antiderivatives 8

Find the indicated antiderivative. Check your answers.

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

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

$$3. \int \frac{e^{\sec^{-1} x}}{x\sqrt{x^2 - 1}} dx =$$

$$4. \int \frac{2x + 1}{x^2 + 1} dx =$$

$$5. \int \frac{\tan^{-1} x}{x^2 + 1} dx =$$

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

$$7. \int \frac{1}{(\sin^{-1} x)^3 \sqrt{1-x^2}} dx =$$

$$8. \int \frac{(\tan^{-1} x)^2}{x^2 + 1} dx =$$

$$9. \int \frac{e^{2x}}{1-e^{2x}} dx =$$

$$10. \int \frac{e^x}{\sqrt{1-e^{2x}}} dx =$$