

### Antiderivatives 4

Find the indicated antiderivative. Check your answers.

1.  $\int 5x^2 \cos(x^3) dx =$

2.  $\int x \sin(x^2 + 1) dx =$

3.  $\int 2x^3 \sec(x^4 - 1) \tan(x^4 - 1) dx =$

4.  $\int 3x^2 \sec^2(x^3) dx =$

5.  $\int \csc^2(5x) dx =$

$$6. \int e^{3x-5} dx =$$

$$7. \int 2x^2 e^{x^3} dx =$$

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

$$9. \int 4 \cos x e^{\sin x} dx =$$

$$10. \int 2 \sec^2 x e^{\tan x} dx =$$