

1. REVIEW: INTEGRALS

Evaluate the following integrals.

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

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

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

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

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

8. $\int \frac{x^2 \cos(x^3)}{\sin(x^3)} dx$

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

9. $\int \tan x \cos x dx$

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

10. $\int_0^{\frac{\pi}{3}} \sin x \cos x dx$