

INTEGRATION REVIEW

Evaluate the following integrals:

1) $\int x^3 e^{x^4} dx$

2) $\int x^2 e^x dx$

3) $\int \sqrt{x} \ln x dx$

4) $\int e^x \cos x dx$

5) $\int \sin 3x \cos 2x dx$

6) $\int \tan^{-1} x dx$

7) $\int \frac{1}{1-x^2} dx$

8) $\int \frac{x+4}{x^2+5x-6} dx$

9) $\int \frac{x}{x^2-2x-3} dx$

10) $\int \frac{1}{(x+1)(x^2+1)} dx$