

## INTEGRATION PRACTICE

Evaluate the integrals below. Your answers should be reasonably simplified.

1.  $\int_0^{\pi/4} \sin^2(2\theta) dx$

2.  $\int x^3 \sqrt{x^2 + 1} dx$

3.  $\int_2^6 t^5 \ln(t) dt$

4.  $\int_2^3 \frac{2x + 3}{(x - 1)(x + 4)} dx$

5.  $\int \sec(x) dx$

6.  $\int \frac{\ln(\ln(x))}{x \ln(x)} dx$

7.  $\int \sin^6(x) \cos^3(x) dx$

8.  $\int x \sin(7x) dx$