

## Evaluate the following

1.  $\int \sec(2x) \tan(2x) dx$

5.  $\int \frac{\sin(\sqrt{x})}{\sqrt{x}} dx$  Hint: Let  $u = \sqrt{x}$

2.  $\int \sin(x)e^{\cos(x)} dx$

6.  $\int \sec(x)^2 \tan(x) dx$

3.  $\int_1^3 \frac{x}{1+x^2} dx$

7.  $\int x\sqrt{x+1} dx$  Hint: Let  $u = x + 1$

4.  $\int_2^5 \frac{1}{x \ln(x)} dx$

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