

Name: _____ ID _____ List: _____

Evaluate the Integral

1.
$$\int_0^{\pi/2} \frac{\cos \theta}{1 + \sin \theta} d\theta.$$

2.
$$\int \sqrt{t} e^{\sqrt{t}} dt.$$

3.
$$\int_1^{e^2} \frac{\ln x^2}{x} dx.$$

4.
$$\int \frac{\ln(x^2 + x)}{(2x + 1)^2} dx.$$

$$5. \int \frac{dx}{(2 + \sqrt{x})^3}.$$

$$6. \int \frac{\sec x \cos 2x}{\sin x + \sec x} dx.$$

$$7. \int_{-1}^0 \frac{e^{1/x}}{x^2} dx.$$