

Integration of ln(x)

p. 386 - 392 (5.52)

# 69

$$\int \frac{1}{x} dx = \ln(|x|) + C$$

$$\int \frac{1}{u} du = \ln(|u|) + C \text{ (BE CAREFUL, must do u-subst.)}$$

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Integrate:

1.  $\int \frac{3e^x}{1 + e^x} dx$

\*\*2.  $\int \frac{x - 4}{x^2} dx$

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