

More Integrals of Trig

p. 386 - 392 (5.5)

71

$$\int (\tan(u)) du = -\ln(|\cos(u)|) + C$$

$$\int (\cot(u)) du = \ln(|\sin(u)|) + C$$

$$\int (\sec(u)) du = \ln(|\sec(u) + \tan(u)|) + C$$

$$\int (\csc(u)) du = -\ln(|\csc(u) + \cot(u)|) + C$$

Integrate the following:

1. $\int \left(\left(\frac{\sec\sqrt{x}}{5\sqrt{x}} \right) \right) dx$

**2. $\int (\tan(2t)) dt$