

8.1, 8.2 #6

$$\frac{dy}{dx} - e^{-y} \sec^2 x = 0$$

$$\frac{dy}{dx} = e^{-y} \sec^2 x \, dx$$

$$\frac{dy}{e^{-y}} = \sec^2 x \, dx$$

$$\int e^y \, dy = \int \sec^2 x \, dx$$

$$e^y = \tan x + C$$

$$y = \ln(\tan x + C)$$