$$\frac{\#9}{(\cos x)} \frac{dy}{dx} + y \sin x = \sin x \cos x, \quad -\frac{\pi}{2} e^{-\frac{\pi}{2}} e^{-\frac{\pi}{2}}$$
Divide by $\cos x$ (OK since $\cos x > 0$ on $-\frac{\pi}{2} e^{-\frac{\pi}{2}} e^{-\frac{\pi}{2}}$)
$$\frac{dy}{dx} + y \tan x = \sin x$$

$$\mu(x) = e^{-\frac{\pi}{2}} e^{-\frac{\pi$$

$$\frac{d}{dx}$$
 (y secx) = $tan x$

y sec x = Stanx dx y secx = In (secx) + C Use initial value y (0) =5 $5(1) = \ln 1 + C \implies C = 5 - 0 = 5$ So y secx = In (secx) +5 y = (cos x) In (secx) +5 cos x \