6.1 $(p 411) \# 14$

Verify $y=e^{-\cos x}$ is a solution to $y^{\prime}=y \sin x$ and goes through $y\left(\frac{\pi}{2}\right)=1$.
Take derntived of $y_{i}^{\prime} y^{\prime}=e^{-\cos x}(\sin x)$ Note $y=e^{-\cos x}$
Next. $y\left(\frac{\pi}{2}\right)=e^{-\cos \left(\frac{\pi}{2}\right)}$ So $y^{\prime}=y \sin x l$
Next: $y\left(\frac{\pi}{2}\right)=e^{-\cos \left(\frac{\pi}{2}\right)}=e^{0}=1$

