10. $\int_{-\pi/2}^{\pi/2}(2t+\cos t)dt = \frac{2t^2}{2}+\sin t|_{-\pi/2}^{\pi/2} = ((\frac{\pi}{2})^2+\sin(\frac{\pi}{2}))-((-\frac{\pi}{2})^2+\sin(-\frac{\pi}{2})) = (\frac{\pi}{4}^2+1)-(\frac{\pi}{4}^2-1) = 2$