$$\int x\sqrt{1-x^2}\,dx \overset{?}{=} \sqrt{1-x^2}$$

$$x\sqrt{1-x^2} \overset{?}{=} \frac{d}{dx}\sqrt{1-x^2}$$

$$= \frac{d}{dx}(1-x^2)^{1/2}$$

$$= \frac{1}{2}(1-x^2)^{-1/2}(-2x)$$

$$= \frac{1}{2}\frac{1}{\sqrt{1-x^2}}(-2x)$$

$$= -\frac{x}{\sqrt{1-x^2}} \quad !!$$

$$\int x\sqrt{1-x^2}\,dx \overset{?}{=} (\operatorname{sen}\theta)^5(\cos\theta)^7$$

$$x\sqrt{1-x^2} \overset{?}{=} \frac{d}{dx}\left((\operatorname{sen}\theta)^5(\cos\theta)^7\right)$$

$$= ???? \quad !!$$

NÃO SABEMOS O JEITO CERTO DE FAZER ESTA DERIVADA!