

$$3) = 2 \sin \frac{x}{2} - x \cos \frac{x}{2}$$

$$\frac{dy}{dx} = (2 \cos \frac{x}{2}) \times \frac{1}{2} - [x \cdot (-\sin \frac{x}{2}, \frac{1}{2}) + (\cos \frac{x}{2}, 1)]$$

$$\frac{dy}{dx} = \frac{x}{2} \cdot \sin \frac{x}{2}$$

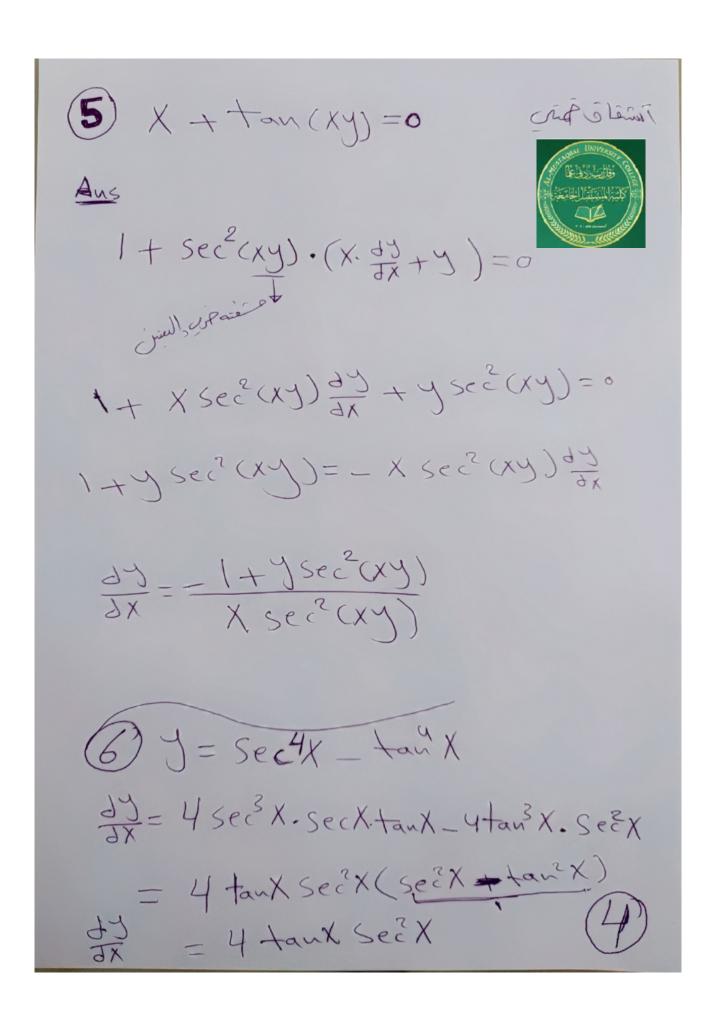
$$4) = \frac{x}{2} \cdot \sin \frac{x}{2}$$

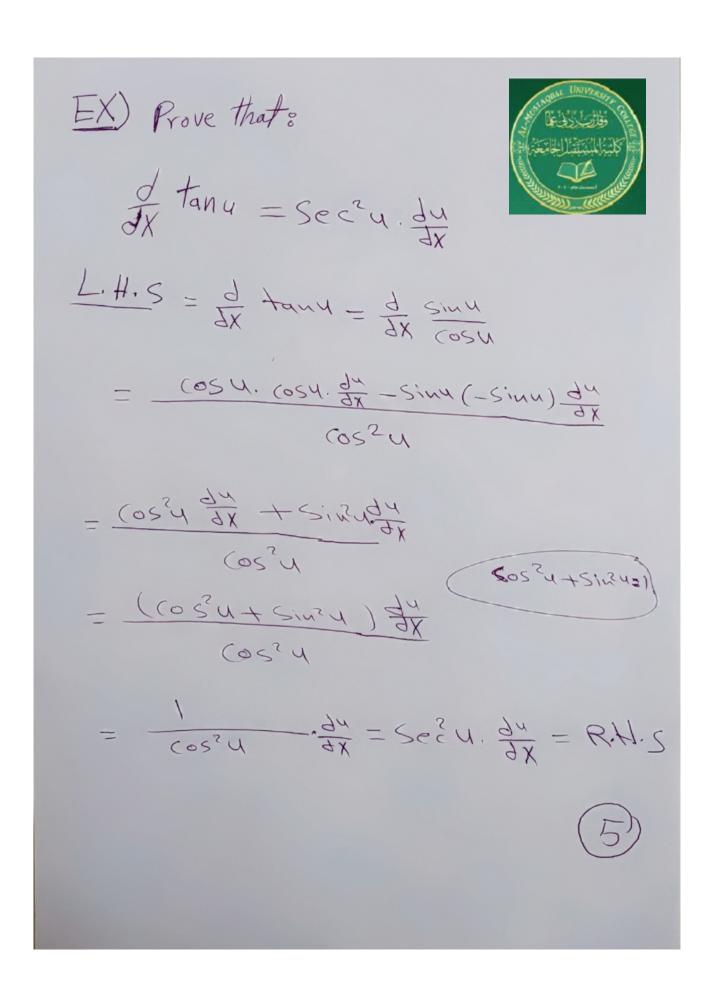
$$4) = 2 \cdot \tan^{2}(\cos x) \cdot \sec^{2}(\cos x) \cdot (-\sin x)$$

$$\frac{dy}{dx} = 2 \cdot \tan(\cos x) \cdot \sec^{2}(\cos x) \cdot (-\sin x)$$

$$\frac{dy}{dx} = +2 \cdot \sin x \cdot \tan(\cos x) \cdot \sec^{2}(\cos x)$$

$$(3)$$





EX) Prove that & Ju secy = secy. tanx du dx L. H.s & secu = d dx cosu JX COC3U

SINU DX

COC3U

AX

COC3U 9x Cossa gx cosu Sinn dy = Secu. tany. du = R. H. S

