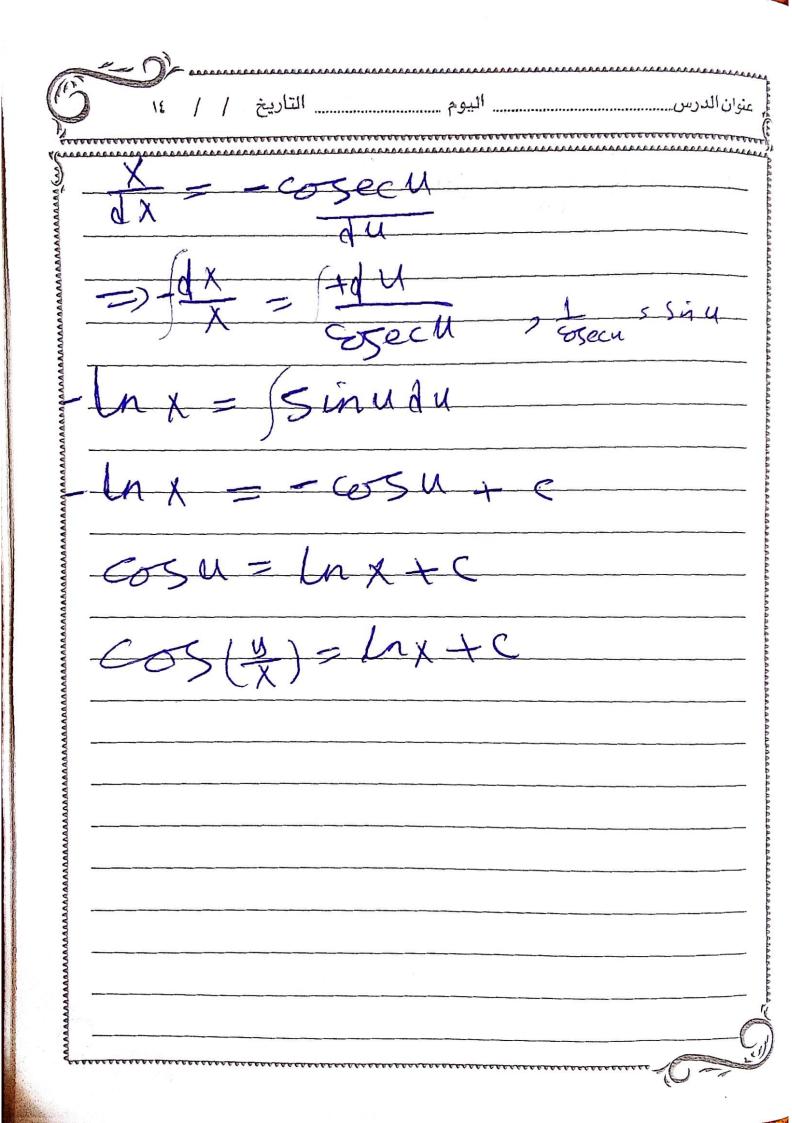


عنوان الدرس الماريخ $\left(X \cos(\frac{y}{x}) - y\right) dx + x dy = 0$ (Cosec 7 - 7) dx = - 14 Cosec = - dy $\frac{y}{x} - \cos \frac{y}{x} = \frac{dy}{dx} \left(\frac{dy}{dx} - \int \frac{y}{x} \right)$ $u = \frac{y}{x} \Rightarrow y = xu, \frac{dy}{dx} = x\frac{dy}{dx} + u$ Xdu + U = U - Gosecu => X du - cosecu



على الهامش (B) (Seextenxdx = secx+C (4) cscacotidx = = cscx+c (E) (dx = ton'x + C $\sqrt{\frac{dx}{1-x^2}} = \sin x + c$ $\frac{dx}{dx} = -csc^{2}x + c$ 1 ton x +c 19 / dx = Sin x +c = cotute CSC'U+C

0 / Xdx = X Cydx = laxe 3 (8 de - 8 + c ti dox = tra E) Singdx = = 95x +c Ofcosida = singe Fork = In Sect (8) cotxde lasinx+c 9 Secx dx = In sec 1 - w. 10) (cccidx = L. sect - - 5.7) Of sec2xdx - ton x + c 2) SCSCXAX=-cotx+C