

College of electronic technology - Tripoli

Mid Term Exam

O.D. Equation

Answer All Question in 2h (G1)

Data: 25/7/2024

Q1. $y\sqrt{1-x^2} dy = \sin^{-1}x dx$ *فصل*

Q2. $\dot{y} + y \cot x = 2 \operatorname{cosec} x$ *قطب*

Q3. $(ye^{xy} \cos 2x - 2e^{xy} \sin 2x + 2x)dx + (xe^{xy} \cos 2x - 3)dy = 0$

Q4. $\left(\frac{y}{x} \cos xy - y^2 \sin xy\right) + (\cos xy - xy \sin xy)y' = 0$

*تأنيدي
أو غير*

Q5) $\dot{y} = \frac{x+3y}{2x+y}$ *تجانس*

Good luck for every one