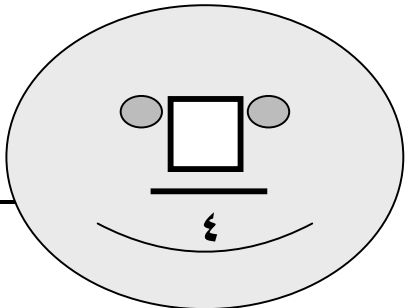


<u>Name:</u>	<u>ID:</u>	<u>Sec:</u> 2 , 3 <u>serial:</u>
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MATH 202

Term 052

QUIZ 1 (form A)

State the order of the given differential equation.
 Determine weather the equation is ODE or PDE.
 Determine weather the equation is linear or nonlinear.

	Equation	Type		Linearity			Order
		ODE	PDE	linear	nonlinear		
1	$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$	ODE	PDE	linear	nonlinear		
2	$\frac{d^2 u}{dr^2} + \frac{du}{dr} + u = \cos(r + 1)$ <small>HW (4 / p10)</small>	ODE	PDE	linear	nonlinear		
3	$(\sin \theta)y^m - (\cos \theta)y' = 2e^y$ <small>HW (7 / p10)</small>	ODE	PDE	linear	nonlinear		
4	$xdy + ydx = 0$	ODE	PDE	linear in x	linear in y	non linear	
5	$\frac{\partial^3 u}{\partial x^3} + \left(\frac{\partial u}{\partial y}\right)^2 + u = 0$	ODE	PDE	linear	nonlinear		

Say a prayer and GOOD luck 😊