

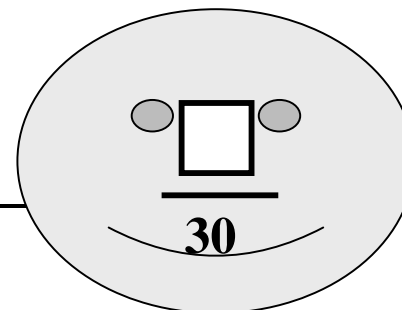
Name:

ID:

MATH 202

Term 072

QUIZ 1



State the order of the given differential equation.

Determine whether the equation is ODE or PDE.

Determine whether the equation is linear or nonlinear.

	Equation	Type		Linearity			Order
		ODE	PDE	linear	nonlinear		
1	$(1-x)y' - 4xy = \cos x$ (#1/Page 10)	ODE	PDE	linear	nonlinear		
2	$t^4 y^{(5)} - ty'' + 6y = 0$ (#3/Page 10)	ODE	PDE	linear	nonlinear		
3	$x^2 y^{(3)} + (y^{(2)} \cos x)^4 = 5$	ODE	PDE	linear	nonlinear		
4	$(x-1)dy + ydx = 0$	ODE	PDE	linear in x	linear in y	non linear	
5	$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + u = 0$	ODE	PDE	linear	nonlinear		

Say a prayer and GOOD luck

