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

6pts

6pts

6pts

6pts

6pts

Say a prayer and GOOD luck

