Quiz 1 Form **B**

Sept 1, 2017

1.) Determine the <u>order</u> of the given differential equations and also state whether the equation is <u>linear or nonlinear</u>:

[3] 1a.) $ty + y' = 1$ is a _____ order _____ differential equation.

[3] 1b.) $t + yy' = 1$ is a _____ order _____ differential equation.

[14] 2.) Solve and state where the solution is defined: $t^5 y' + 5t^4 y = \frac{1}{t}$

Solution: _____   Domain: _____