Quiz 1

Name: _____

1. Do your best to explain the idea of a differential equation.

   A differential equation is an equation that relates a function to its derivatives.

2. Is there more than one function y that obeys the following differential equation? Briefly justify.
$$\frac{dy}{dt} = 20$$

   Yes. For instance, $y = 20t$ and $y = 20t + 1$ are two different solutions to this equation.