

Name _____

1. Find an explicit solution to the following initial value problem.

$$\frac{dw}{dt} = 6e^{3t}, \quad w(0) = 10$$

2. Find an explicit solution to the following initial value problem.

$$\frac{dR}{dw} = 0.3R, \quad R(0) = 40$$

3. Find an explicit solution to the following initial value problem.

$$\frac{dq}{dr} = \frac{10r^4}{q} \quad q(0) = 3$$