Lab I, Problem 7: Acceleration of a Ball with an Initial Velocity
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Statement of the Problem

The experimental problem was to determine if the initial velocity of a device being launched straight down has an effect on the acceleration of the object over its descent. The device

$$\frac{dy}{dy} = x^2 + 2; \quad y(3) = 10$$

2. Solve the initial value problem

$$\frac{dy}{dx} = 3x^2 y; \quad y(0) = 9$$