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Problem 1. Exercise 13.11 (10 points) The following second-order differential equation does not contain y. Solve the differential equation using the substitution v = y' as described in Section 3.1.

$$y'' = y'$$

Solution:

**Problem 2.** Exercise 13.4¢ (10 points) The following second-order equation is autonomous. Solve using the substitution as described in Section 3.2.

$$3 y y'' = 2 (y')^2$$

## Solution: