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Separable First-order Equation Examples

Solve the following separable first-order equations.

$$dy/dx = 4x\sqrt{y}, \text{ with } y(0) = 1$$

$$dx/dt = x(1 - x), \text{ with } x(0) = x_0 \text{ and } 0 \leq x_0 \leq 1$$

Note: Remember, you may check the solutions in the [lecture notes](#).

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