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Mathematical Methods for Scientists and Engineers

The most general separable equation is (1.1.2) $y'(x) = a(x)b(y)$. Direct integration gives the general solution $\int \frac{1}{b(y)} dy = \int a(x) dx + c$ where c is a constant of integration. [The notation $\int a(x) dx$ stands for the antiderivative of $a(x)$.]

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