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The differential equation can be written as $y' + P(x)y = Q(x)$. Integrating both sides of the equation, we obtain $y + \int P(x)y dx = \int Q(x) dx + C$. Imposing the given initial condition, the specific solution is $y = e^{-\int P(x) dx} \left(\int Q(x) e^{\int P(x) dx} dx + C \right)$. Therefore, the solution is $y = e^{-\int P(x) dx} \left(\int Q(x) e^{\int P(x) dx} dx + C \right)$. Observe that the solution is defined as long as $e^{\int P(x) dx} \neq 0$. It is easy to see that $e^{\int P(x) dx} \neq 0$ for all x . Hence, the solution is valid on the interval $(-\infty, \infty)$. Referring back to the differential equation, the solution is valid on the interval $(-\infty, \infty)$.

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That is, $y = e^{-\int P(x) dx} \left(\int Q(x) e^{\int P(x) dx} dx + C \right)$, and hence $y = e^{-\int P(x) dx} \left(\int Q(x) e^{\int P(x) dx} dx + C \right)$. The general solution of the differential equation is $y = e^{-\int P(x) dx} \left(\int Q(x) e^{\int P(x) dx} dx + C \right)$. This is exactly the form given by Eq. in the text. Invoking an initial condition, $y(x_0) = y_0$, the solution may also be expressed as $y = e^{-\int P(x) dx} \left(\int_{x_0}^x Q(t) e^{\int P(t) dt} dt + y_0 e^{\int P(x_0) dx} \right)$.

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ELEMENTARY DIFFERENTIAL EQUATIONS

$y_1 = 2\cos x$, $y_2 = 2\sin x$, $y_3 = 2\cos x$, $y_4 = 2\cos x$. $y_1 = 2\cos x$, $y_2 = 2\sin x$, $y_3 = 2\cos x$, $y_4 = 2\cos x$. $y_1 = 2\cos x$, $y_2 = 2\sin x$, $y_3 = 2\cos x$, $y_4 = 2\cos x$. 1.2.4. (a) If $y(0) = y_0$, then $y(x) = e^{-\int P(x) dx} \left(\int_{x_0}^x Q(t) e^{\int P(t) dt} dt + y_0 e^{\int P(x_0) dx} \right)$.

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$R = \frac{1}{e^x} \frac{dx}{C} = \frac{1}{e^x} \frac{1}{C} dx$, so $C = \frac{1}{e^x}$ and $y = \frac{1}{e^x} \frac{1}{C} = \frac{1}{e^{2x}}$. (b) If $y = \frac{1}{e^x} \sin x^2$, then $y' = \frac{1}{e^x} (2x \cos x^2 - \sin x^2)$; $y'' = \frac{1}{e^x} (2 - 4x^2 \sin x^2 - 2x \cos x^2)$, so $C = \frac{1}{e^x}$ and $y = \frac{1}{e^x} (2 - 4x^2 \sin x^2 - 2x \cos x^2)$.

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Draw a direction field for the given differential equation. Based on the direction field, determine the behavior of y as $t \rightarrow \infty$. If this behavior depends on the initial value of y at $t = 0$, describe the dependency. $y' = 3 - 2y$.

Elementary Differential Equations And Boundary Value ...

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The general solution of the differential equation is $C_1 e^{-t} + C_2 e^{t/2}$. This is exactly the form given by Eq. 2.1.1 in the text. Invoking an initial condition $C_1 e^{-0} + C_2 e^{0/2} = 1$, the solution may also be expressed as $C_1 e^{-t} + C_2 e^{t/2} = \frac{1}{2} e^{-t} + \frac{1}{2} e^{t/2}$.

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