$$\sum F = m \frac{dV}{dt}$$

$$mg = m \frac{dV}{dt}$$

$$V(t) = gt$$

$$y(t) = \frac{1}{2}gt^{2}$$

$$\Sigma F = m \frac{dV}{dt}$$

$$mg-kV=m\frac{dV}{dt} \longrightarrow \frac{dV}{dt} = g-\frac{k}{m}V$$

$$\sqrt{\frac{dV}{g-\frac{k}{m}V}} = \int dt$$

$$3-3U=9-\frac{K}{M}V-3dU=-\frac{K}{M}dV$$

$$-\frac{m}{k}\int_{0}^{\infty}\frac{dU}{U}=t$$

$$\ln \left[1 - \frac{k}{mg}v\right] = -\frac{kt}{m}$$

$$1 - \frac{k}{mg} V = e^{-\frac{kt}{m}}$$

$$V(t) = \frac{mg}{k} \left(1 - e^{kt/m}\right)$$

terminant
$$V = 9t$$
 mg
 $V = mg$
 $V = mg$

$$\mathcal{E}(t) = \mathcal{E}_0 \cos(\omega t)$$

$$\frac{dq}{dt} + \frac{1}{RC}q = \frac{\epsilon_0}{R}\cos(\omega t)$$

Ly Tidak bisa diseparasi

PDB orde-1:
$$[a_1(x)y' + a_0(x)y = b(x)], y' = \frac{dy}{dx}, a \neq 0$$

linear

solusi:
$$y(x) \overline{y' + P(x)y = Q(x)}, P(x) = \frac{q_0(x)}{q_1(x)}, Q(x) = \frac{b(x)}{q_1(x)}$$

Tinjau Q=0:

$$y'+Py=0 \rightarrow y'=-Py \times dy$$

$$|n|y|=-\int Pdx + C$$

$$y=e^{-\int Pdx}+C=e^{-\int Pdx}$$

$$y=Ae^{-\int}$$

$$= 4e^{-\int}$$

$$= 4e$$

$$\frac{[y'+Py=Q] \times e^{I}}{e^{I}(y'+Py)} = e^{I}Q$$

$$\frac{d}{dx}(ye^{I}) = e^{I}Q \times dx$$

$$y e^{I} = (fe^{I}Q dx) + C$$

$$\frac{y(x) = e^{-I}(fe^{I}Q dx) + Ce^{-I}}{y'+\frac{2}{x}y=\frac{1}{x}} \times \frac{y'+Py=Q}{x'}$$

$$\frac{[y'+2y=1]}{y'+\frac{2}{x}y=\frac{1}{x}} \times \frac{y'+Py=Q}{x'}$$

$$\frac{y'+2y=1}{x'} \times \frac{y'+2y=1}{x'} \times \frac{y'+Py=Q}{x'}$$

$$\frac{y'+2y=1}{x'} \times \frac{y'+2y=1}{x'} \times \frac{y'+Py=Q}{x'} \times \frac{y'+2y=1}{x'} \times \frac{$$

$$\begin{array}{lll}
x^{2}y' + 3y = x^{3} \\
y' + \frac{3}{x^{2}}y' = x \\
P = \frac{3}{x^{2}} & e^{-\frac{3}{x^{2}}}y' = x \\
e^{-\frac{3}{x^{2}}}y' + \frac{3}{x^{2}}e^{-x}y = xe^{-\frac{3}{x^{2}}} \\
e^{-\frac{3}{x^{2}}}y' + \frac{3}{x^{2}}e^{-x}y' = xe^{-\frac{3}{x^{2}}} \\
e^{-\frac{3}{x^{2}}}y' + \frac{3}{x^{2}}e^{-x}y' = xe^{-\frac{3}{x^{2}}} \\
f(x)^{-2}dx = -\frac{1}{x} & e^{-\frac{3}{x}}y' = f(xe^{-\frac{3}{x^{2}}}) = xe^{-\frac{3}{x^{2}}} \\
f(x)^{-\frac{3}{x^{2}}}y' + e^{x}y' = e^{x}x' + e^{x}y' = f(xe^{x}y') = f(xe^{x}y'$$

Jetc cos wt dt =
$$e^{t/Rc}$$
 sin wt $-\frac{1}{\omega R}$ $e^{t/Rc}$ sin wt dt

$$\Rightarrow \int e^{t/Rc} \sin \omega t \, dt = -\frac{1}{\omega} e^{t/Rc} \cos \omega t + \frac{1}{\omega Rc} \int e^{t/Rc} \cos \omega t \, dt$$

$$P = \frac{1}{Rc} e^{t/Rc} \, dt$$

$$V = -\frac{1}{\omega} \cos \omega t$$

$$\Rightarrow \int e^{t/Rc} \cos \omega t \, dt$$

$$= e^{t/Rc} \cos \omega t \, dt$$

$$= e^{t/Rc} \cos \omega t \, dt$$

$$= e^{t/Rc} \cos \omega t \, dt = e^{t/Rc} \sin \omega t + \frac{1}{\omega^2 Rc} e^{t/Rc} \cos \omega t \, dt$$

$$\int e^{t/Rc} \cos \omega t \, dt = \frac{e^{t/Rc}}{1 + \frac{1}{\omega^2 R^2 c}} \left[\sin \omega t + \frac{\cos \omega t}{\omega^2 Rc} \right]$$

$$= e^{t/Rc} \cos \omega t \, dt = \frac{e^{t/Rc}}{1 + \frac{1}{\omega^2 R^2 c}} \left[\sin \omega t + \frac{\cos \omega t}{\omega^2 Rc} \right]$$

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$$= \frac{e^{t/Rc}}{1 + \frac{1}{\omega^2 R^2 c}}$$

$$y(x) = (x + (e^{-x/3} - 3)^3)$$

$$\sum \overline{F} = m \overline{q} = m \frac{d^2 \overline{r}}{dt^2}$$

$$\begin{array}{c|c}
 & V_R + V_L + V_C = \mathcal{E}(t) \\
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$$\nabla^2 \vec{E} = c^2 \frac{\partial^2 \vec{E}}{\partial t^2}$$

$$y' = \frac{dy}{dx}$$

$$Q_2 = Q_2(x) \neq 0$$
, $b = b(x)$

$$Q_0 = Q_0(x)$$

homogen,
$$b(x) = 0$$

Homogen
$$Q_{2}y''+a_{1}y'+a_{0}y=0$$

$$Solusi \ trivia$$

$$Cth: y''+3y'+5y=0$$

$$X'+\omega^{2}x=0, \ \omega^{2}\equiv \frac{k}{m}$$

$$RLC: \dot{q}+\frac{R}{L}\dot{q}+\frac{1}{LC}\dot{q}=0$$

$$y'=\frac{dy}{dx} \quad Definisikan \ operator:$$

$$y''=\frac{d^{2}y}{dx^{2}} \quad D=\frac{d}{dx} \quad y'=Dy$$

$$y''=D^{2}y=D(Dy)$$

$$q_{2}D^{2}y+q_{1}Dy+q_{0}y=0$$

$$(q_{2}D^{2}+a_{1}D+a_{0}=0)$$

$$Q_{2}^{2}+a_{1}D+a_{0}=0$$

$$Q_{3}^{2}+b_{3}+c=0$$

$$Q_{4}^{2}+b_{5}+c=0$$

$$Q_{5}^{2}+a_{1}D+a_{0}=0$$

$$Q_{7}^{2}+a_{1}D+a_{0}=0$$

$$\frac{Q \times^{2} + b \times + C = 0}{X + B} \times \frac{1}{A} = 0$$

$$\frac{A \times^{2} + b \times + C = 0}{X + B} \times \frac{1}{A} = 0$$

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$$\frac{A \times^{2} + b \times + C = 0}{X + B} \times \frac{1}{A} = 0$$

$$\frac{A \times^{2} + b \times + C = 0}{A} \times \frac{1}{A} = 0$$

$$y'' + 5y' + 6y = 0$$

$$(D^{2} + 5D + 6)y = 0$$

$$(D+3)(D+2)y = 0$$

$$y(x) = Ae^{-3x} + Be^{-2x}$$

Proof:

$$y' = -3Ae^{-3x} - 2Be^{-2x}$$

 $y'' = -9Ae^{-3x} + 4Be^{-2x}$

$$9Ae^{-3x} + 4Be^{-2x} - 15Ae^{-3x} - 10Be^{-2x} + 6Ae^{-3x} + 6Be^{-2x} = 0$$

 $\therefore y(x) = Ae^{-3x} + Be^{-2x}, \text{ merupakan solusi.}$ \Box
 $y'' + y' - 2y = 0$
 $(D+2)(D-1)y=0$

$$y(x) = Ae^{-2x} + Be^{x}$$

Klasifikasi solusi bedasarkan diskriminan:

$$q_{\pm} = q_{12}/2 \pm \sqrt{\frac{q_{12}^2 - q_{02}}{4}} - q_{02}$$

Diskriminan = $\frac{q_{12}^2}{4} - q_{02} = 0$, $q_{\pm} = q_{\pm} \in \mathbb{R}$
 $(0, q_{\pm}, q_{\pm}) \in \mathbb{C}$

$$(D+q_{+})(D+q_{-})y=0$$

=> $(D+q_{k})(D+q_{k})y=0$

$$\begin{array}{c} (D+a_{K}) V(x) = 0 \longrightarrow V' + a_{K}V = 0 =) V(x) = C_{1}e^{-a_{K}x} \\ (D+a_{K})y = C_{1}e^{-a_{K}x} \\ =) y' + a_{K}y = Ce^{-a_{K}x} \\ \xrightarrow{d} (e^{a_{K}x}y) = C_{1} \longrightarrow e^{a_{K}x} \\ \xrightarrow{d} (x) = C_{1} \longrightarrow e^{a_{K}x} \\ \end{array}$$

$$y(x) = C_1 e^{-a_{x}x} + C_2 \times e^{-a_{x}x} = (A+B_x) e^{-a_{x}x}$$

$$y'' + 4y' + 4y = 0$$

$$(D+2)(D+2)y = 0 \Rightarrow y(x) = Ae^{-2x} + Be^{-2x}$$

$$y(x) = Ae^{-2x} + B \times e^{-2x}$$

$$y(x) = Ae^{-2x} + Ae^{-2x} + Ae^{-2x}$$

$$y(x) = Ae^{-2x} + Ae^{-2x} + Ae^{-2x} + Ae^{-2x}$$

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$$y(x) = Ae^{-2x} + Ae^{-2x} + Ae^{-2x} + Ae^{-2x}$$

$$y(x) =$$

 $-\text{Im} \left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right) = \sqrt{1 - \sqrt{1 - 1}}, i^{2} = -1$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times = 0 \right)$ $\left(\sum_{i=1}^{\infty} (D^{2} + \omega^{2}) \times$

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