ostatecznie: T(t) = To + dA (e-pt e-st)

$$\Gamma \simeq T_0 - Ad e^{-dt} \left[e^{-\beta t} - 1 \right] \simeq T_0$$
 to jest sensowne, be all during β temperature otossenia sughts spede do T_0 right temperature viole six me amienia

•
$$\rho \approx \delta$$

 $T(t) = T_0 + \frac{dA}{d-P} (e^{-Pt} - e^{-\delta t}) = T_0 + \frac{dA}{d-P} e^{-dt} (e^{(d-P)t} - 1) \approx T_0 + \frac{dA}{d-P} e^{-dt} [1+(d-P)t - 1]$
= $T_0 + \frac{dA}{d-P} e^{-dt} (d-P) \cdot t = T_0 + d \cdot A \cdot t = -dt$

EN 1. ZAD DOM 2

(1) temp. pougtkona = To temp. otovenia = ToT = To - DT

stosuzemy oschigramie osmania Newtona dla stalej temp. otorenia $T(t) = (T_0 - \tilde{I}_{0T})e^{-dt} + \tilde{I}_{0T} = (T_0 - \tilde{I}_{0} + \delta \tilde{I})e^{-dt} + \tilde{I}_{0} - \delta \tilde{I} =$

(2) temperatura povojtkara = În temperatura atovienia = ToT = To + DT paramie stosujemy savigranie savinania Newtona dla statej temp. atovienia

T(t) = (Tn-Tor) e - dt + Tor = [to-st(1-e-dt)-to-st]e + To+st =

ourdersems T(t2)=To

$$\sqrt{\frac{1}{2}} = \frac{10}{10}$$

$$e^{4t_2} = [2 - e^{-4t_1}]$$

$$dt_2 = m[2-e^{-dt_1}]$$

$$\begin{bmatrix}
t_2 = \frac{1}{\lambda} \ln \left[2 - e^{-\lambda t_1} \right]
\end{bmatrix}$$

•
$$t_1 \rightarrow 0$$

 $t_2 = \frac{1}{2} \ln(2 - e^{-\lambda t_1}) \approx \frac{1}{2} \ln(2 - 1) = \frac{1}{2} \ln(1) = 0$

•
$$t_1 \rightarrow \infty$$

 $t_2 = \frac{1}{\lambda} \ln (2 - e^{-\lambda t_1}) \approx \frac{1}{\lambda} \ln (2)$

Któng cros Knótsny?

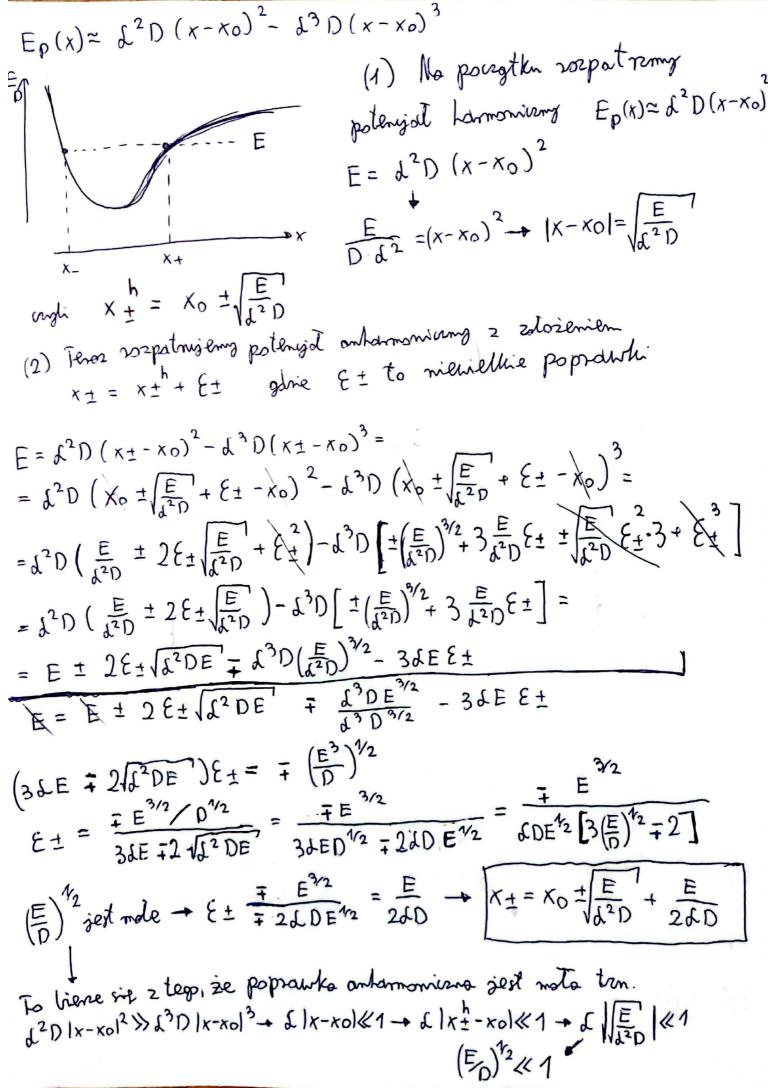
$$t_2 = \frac{1}{t_1} \cdot \frac{1}{t_1} \ln \left[2 - e^{-dt_1} \right] = \frac{\ln \left[2 - e^{-dt_1} \right]}{\ln \left[e^{dt_1} \right]}$$
 $\ln(x)$ jest monotoniuma uiec jesti $t_2 > t_1$ to $\frac{2 - e^{-dt_1}}{e^{dt_1}} > 1$

where
$$\frac{2-e^{-\lambda t_1}}{e^{\lambda t_1}} > 1$$
 /- $e^{2\lambda t_1}$
 $2e^{\lambda t_2} - 1 > e^{2\lambda t_1}$ } $x = e^{2\lambda t_1}$
 $2x - 1 > x^2$

$$0 > x^2 - 2x + 1$$
 ungli $(x-1)^2 < 0$

$$t_1 > t_2$$

(nourosi dla $t_1 = t_2 = 0$)



Zeskanowane w CamScanner

EN 1. ZAD DON 5

$$\begin{cases}
L_s = Los(1 + dsol) \\
L_m = Lom(1 + dmol)
\end{cases}$$

$$L_s = L_m + d d kandego of$$

$$L_s - L_m - d = 0$$

$$Los + Los dsol - Lom - Lomd mol - d = 0$$

$$Los - Lom - d = (-Los ds + Lomd m) at (4)$$

$$Los = Lom + d d kandego at to u senegos hos in$$

$$Los = Lom + d (agh lena strong strong strong myori O. U taken rance pround strong
tego sources des injuris O dhe kandego at

$$-Los ds + Lomd m = 0$$

$$Lom = \frac{ds}{dm} Los$$

$$\begin{cases}
Lom = \frac{ds}{dm} Los \\
Los - Lom - d = 0
\end{cases}$$

$$Los - \frac{ds}{dm} Los = d$$

$$Los - \frac{ds}{dm} = \frac{5m}{1 - \frac{ds}{dm}} = \frac{5m}{1 - \frac{ds}{dm}} = 20m$$

$$Los = \frac{ds}{1 - \frac{ds}{dm}} = \frac{5m}{1 - \frac{ds}{dm}} = \frac{20m}{1 - \frac{ds}{dm}}$$

$$Los = \frac{15m}{1 - \frac{ds}{dm}} = \frac{15m}$$$$

Zeskanowane w CamScanner