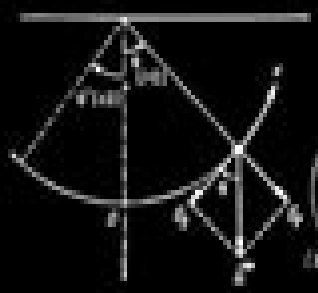
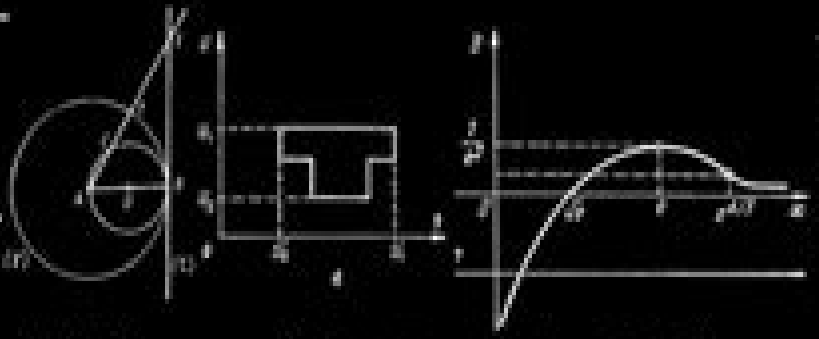
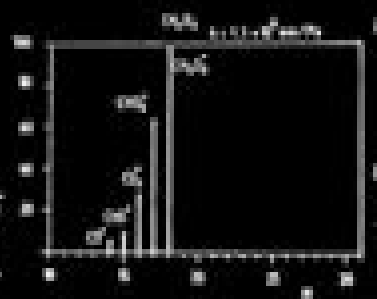






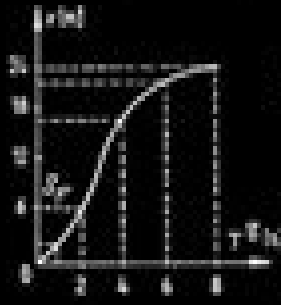
$$x_n = x_{n_{\max}} = \cos^2\left(\pi n + \frac{\pi}{2}\right) = 1$$

$$= \sin\left(\frac{\pi}{2} + \pi n\right); \quad n = 0,1,2,\ldots$$

$$t_n = \frac{2}{\omega}\left(n + \frac{1}{2}\right); \quad n = 0,1,2,\ldots$$

$$x_n = x_{n_{\max}} = \cos^2\left(\pi t_n + \frac{\pi}{2}\right) = 1 = \sin\left(\frac{\pi}{2} + \pi n\right)$$

$$= \omega t = \omega n(\pi n) = t_n = \frac{2}{\omega}\left(n + \frac{1}{2}\right)$$

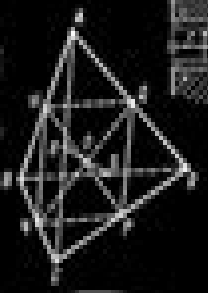


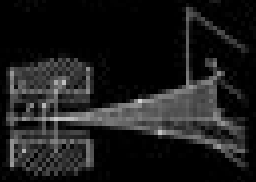
$$\int_{-\infty}^{0} x^n e^x\,dx = \frac{1}{e}(x^n e^x)\Big|_{-\infty}^{0} - \frac{n}{e}\int_{-\infty}^{0}$$

$$= -\frac{n}{e}\left[\frac{1}{e}(x^{n-1}e^x)\Big|_{-\infty}^{0} - \frac{n-1}{e}\int_{-\infty}^{0} x^{n-2}e^x\,dx\right]$$

$$+\frac{n}{e}\left[\frac{1}{e}(x^{n-1}e^x)\Big|_{-\infty}^{0}\right] = -\frac{n}{e}x^{n-1} - \frac{n}{e}x^{n-2}$$

$$= \frac{1}{e^{n+1}}\left[2e^n - 2 - 2e^1 - e^2\right].$$

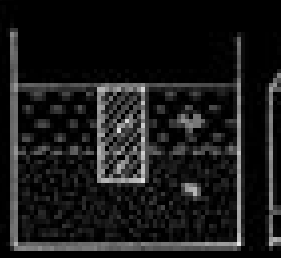


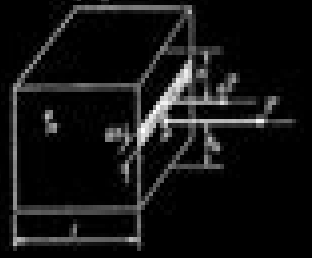


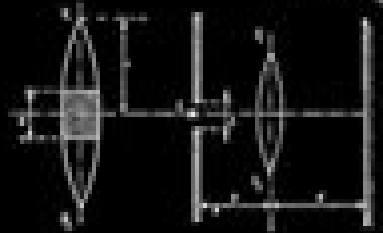
$$w = \sqrt{\frac{2}{m}} = \sqrt{\frac{2\omega_0 E_0}{2\omega_0}} = \sqrt{\frac{2\omega E_0}{2}}$$

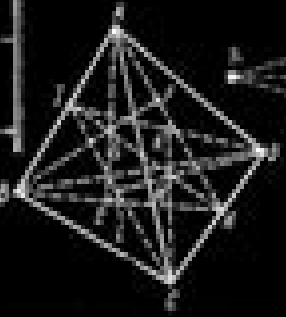
$$= \sqrt{\frac{E_0}{m}}.$$

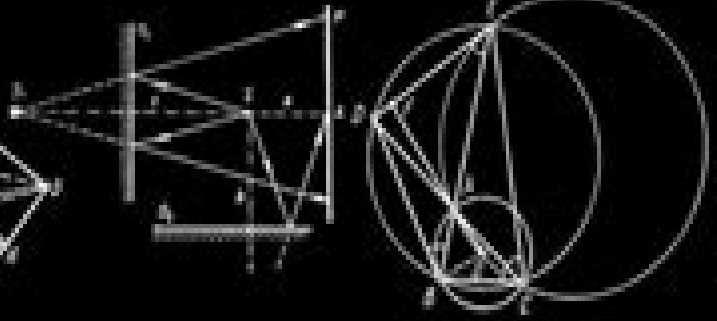
$$T = \frac{2\pi}{\omega} = 2\pi\sqrt{\frac{m}{E_0}} = 3{,}03 \cdot 10^{6}\,\text{s}$$











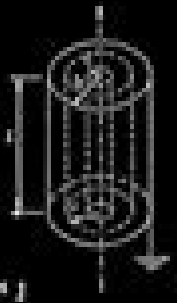
$$Q_{\max} = Q_1 + Q_2 = 2\omega_0 \frac{\delta}{q_e} U_0$$

$$C_1 = C_2 = \varepsilon_0 \frac{\delta}{q_e} = 8{,}85\ \text{pF}$$

$$Q = \frac{Q_1 + Q_2}{2} = 53{,}225 \cdot 10^{-9}\,\text{C}$$

$$U = \frac{Q}{C_1} = \frac{\delta}{2} U_0 = 1\,500\ \text{V}$$

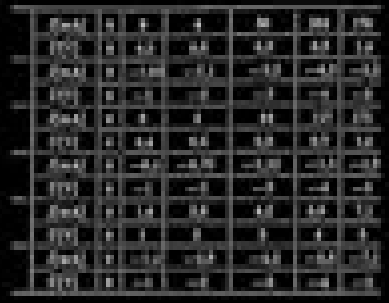
$$= \frac{1}{2} QU = \frac{2}{3}\varepsilon_0 \frac{\delta}{q_e} U_0^2 = 0{,}056 \cdot 10^{-6}\ \text{J}$$



$$-Q_0 = \omega C_1 T_1 (1 - e^{\alpha T_1}) + \omega C_2 T_2 (1 - e^{\alpha T_2}) - U_0$$

$$-Q_0 = \omega C_2 T_2 (e^{\alpha T_2} - 1) + \omega C_1 T_1 (1 - e^{\alpha T_1}) - U_0$$

$$\omega_1 \frac{T_1}{T_2} = \pi, \quad \frac{T_1}{T_2} = e^{\alpha T_1}, \quad \frac{T_2}{T_1} = \pi_2$$

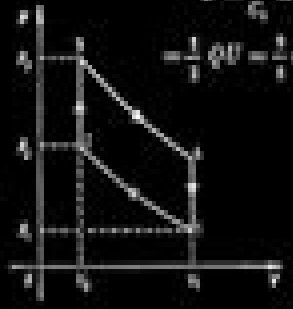


$$-\Omega + \Omega' J + \omega - p\omega J_1 = 0,$$

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} - \begin{pmatrix} \frac{1}{2} & 0 \\ 0 & \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} & 0 \\ 0 & \frac{1}{2} \end{pmatrix}$$

$$\begin{pmatrix} \frac{1}{2} & 0 \\ 0 & \frac{1}{2} \end{pmatrix} \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} = \begin{pmatrix} p-\pi & 0 \\ 0 & p-\pi \end{pmatrix} =$$

$$p - \pi J_1 = -\omega - p\omega J_0$$



$$-Q_0 = \omega C_1 T_1 (1 - e^{\alpha T_1}) + \omega C_2 T_2 (1 - e^{\alpha T_2}) - U_0$$

$$-Q_0 = \omega C_2 T_2 (e^{\alpha T_2} - 1) + \omega C_1 T_1 (1 - e^{\alpha T_1}) - U_0$$

$$\omega_1 \frac{T_1}{T_2} = \pi, \quad \frac{T_1}{T_2} = e^{\alpha T_1}, \quad \frac{T_2}{T_1} = \pi_2$$

Mathematics For Computing

A Gutmann

Mathematics For Computing:

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