

$$\omega = 2\pi \cdot f = \frac{2\pi}{7}$$

DC-KOMPOSANT:
$$V_{AV} = \frac{1}{7} \int V(t) dt = 0$$

NUMERISK MIDDELVARDI (ENSRETTET).

$$|V|_{AV} = \frac{1}{T} \int |V(t)| dt = \frac{2}{T} \int V_0 \sin \omega t dt = \frac{2}{T} \cdot V_0 \left[-\frac{\cos \omega t}{\omega} \right]_0^{\frac{7}{2}}$$

$$= \frac{-2 \cdot T}{T \cdot 2\pi} \cdot V_0 \left[\cos \left(\frac{2\pi}{T} \cdot \frac{T}{2} \right) - \cos Q \right] = -\frac{V_0}{\pi} \left[-1 - 1 \right] = \frac{2 \cdot V_0}{\pi}$$

EFFERTIV VERDI, RMS-VERDI:

$$V_{RMS} = \sqrt{\frac{1}{T}} \int_{0}^{T} V^{2}(t) dt = \sqrt{\frac{2}{T}} \int_{0}^{T} V^{2} \sin^{2} \omega t dt$$

$$= \sqrt{\frac{2}{T} \left[\frac{1}{2} \cdot t - \frac{1}{yw} \cdot \sin^2 2w t \right]^{\frac{7}{2}}}$$

$$= V_0 \sqrt{\frac{2}{T} \cdot \left(\frac{T}{4} - \frac{T}{4 \cdot 2\pi} \cdot \sin\left(2\frac{2\pi}{T} \cdot \frac{T}{2}\right) - 0} = V_0 \cdot \sqrt{\frac{2}{T} \cdot \frac{T}{4}}$$

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