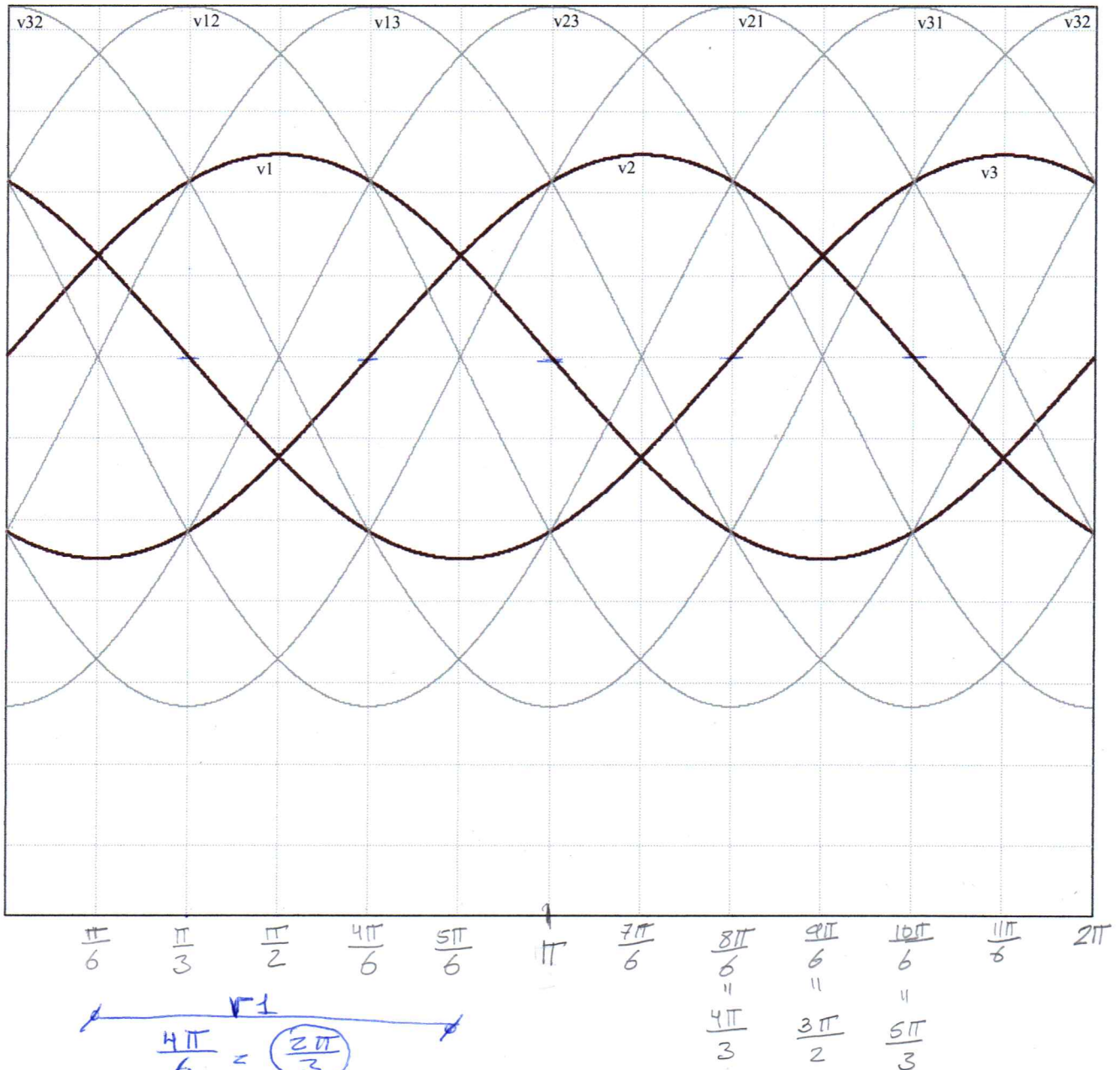


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$v_3$

$$I_{D-\max} = I_0$$

$$I_{D-\text{médio}} = \frac{1}{T} \int_0^T i_D(t) dt = \frac{1}{T} \int_0^{\frac{T}{3}} I_0 dt = \frac{I_0}{3}$$

$$I_{D-\text{rms}} = \sqrt{\frac{1}{T} \int_0^T i_D^2(t) dt} = \sqrt{\frac{1}{T} \int_0^{\frac{T}{3}} I_0^2 dt} = \frac{1}{\sqrt{T}} \times \frac{\sqrt{T}}{\sqrt{3}} I_0 = \frac{I_0}{\sqrt{3}}$$

$$V_{\max} = \sqrt{2} V_{\text{rms}}$$

$$V_{\min} = \frac{\sqrt{2}}{2} V_{\text{rms}}$$