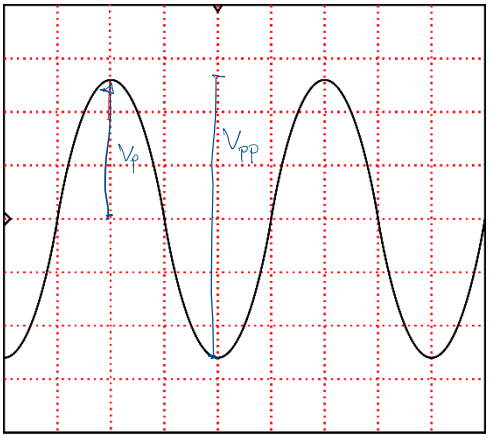
สัญญาณคลื่นไซน์ (Sine wave)



1. $V_p = 12.5\ V$
2. $V_{pp} = 25\ V$
3. $V_{rms} = 8.84\ V$
4. คาบเวลา $(T) = 4 \times 200\mu s = 800\mu s$
5. ความถี่ $(f) = \frac{1}{T}$

$$= \frac{1}{800\mu s} = \frac{1 \times 10^{6}}{8}$$

$$= 0.125 \times 10^{1}\ Hz$$

$$= 125 \times 10^{3}\ Hz$$

$$= 125\ kHz$$

$$V_{rms} = \frac{V_p}{\sqrt{2}} = \frac{12.5}{\sqrt{2}} = 8.84\ V$$

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Vp = 1.9x2 = 3.8 V

Vpp = 3.8x2 = 7.6 V

Vrms = 3.8/1.414 = 2.69 V

T = 2.6x 0.2 ms = 0.52 ms = 520 us

f = 1/T = 1.92 kHz

Vp = 3.2 x 0.5 = 1.6 V

Vpp = 3.2 V

Vrms = 1.6/1.414 = 1.13 V

T = 3.4 x 10us = 34 us

f = 1/T = 1/34us = 0.0294 MHz = 29.4 kHz