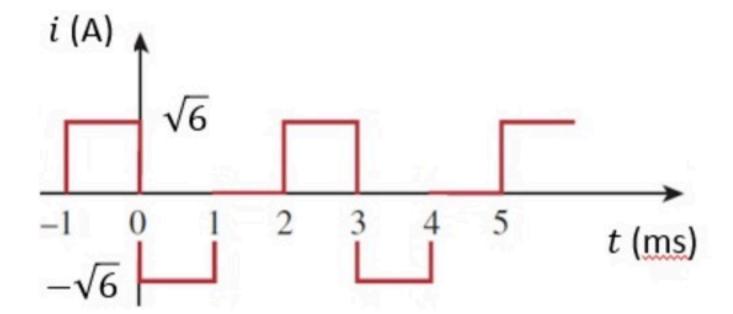
PP AC power 003

Unlimited Attempts.

Find I_{rms} for this waveform.



Given Variables:

. : . .

Calculate the following:

Irms (A):

2

$$A = \frac{1}{T} \int_{0}^{T} i^{2} dt$$

$$= \frac{1}{3.10^{-3}} \left[(-V_{6})^{2} \cdot 10^{-3} + 0 + (V_{6})^{2} \cdot 10^{-3} \right]$$

$$= \frac{1}{3} \left[6 + 6 \right]$$

$$= 4$$

$$I_{PMS} = V_{A} \implies I_{PMS} = 2$$