

PP Phasors 008

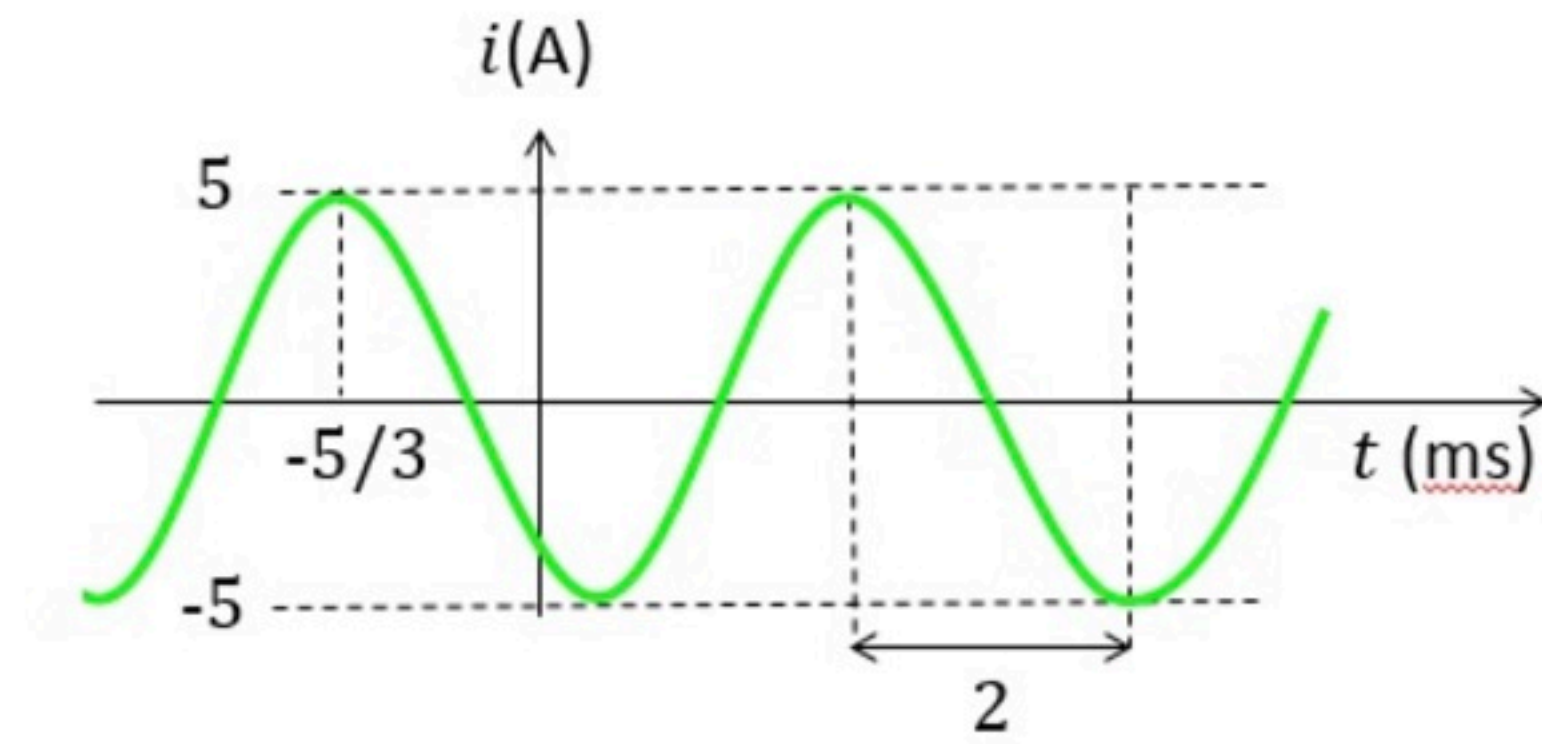
Unlimited Attempts.

Express the current as a time waveform

$$i(t) = A_1 \cdot \cos(2\pi f_1 \cdot t + B_1) \quad \text{with} \quad 0 \leq A_1 \quad \text{and} \quad -180^\circ \leq B_1 \leq 180^\circ$$

and as a phasor

$$\mathbf{I} = A_2 \cdot e^{jB_2} \quad \text{with} \quad 0 \leq A_2 \quad \text{and} \quad -180^\circ \leq B_2 \leq 180^\circ$$



Given Variables:

. . .

Calculate the following:

A1 (A) :

5

✓

f1 (1/s) :

250

✓

B1 (degrees) :

150

✓

A2 (A) :

5

✓

B2 (degrees) :

150

✓

Hint: How does phase relates to time delay?