Phasors 003

Problem has been graded.

Consider the sinusoids:

$$i_1(t) = 12\cos(10t + A_1)$$

 $i_2(t) = 12\sin(10t + A_2)$

The corresponding phasors are:

$$\mathbf{I_1} = 12e^{jB_1}$$
 with $-180^{\circ} \le B_1 \le 180^{\circ}$ $\mathbf{I_2} = 12e^{jB_2}$ with $-180^{\circ} \le B_2 \le 180^{\circ}$

Find B_1 and B_2 .

Given Variables:

A1:35 degrees A2:45 degrees

Calculate the following:

B1 (degrees):

35

B2 (degrees):

-45