PP Phasors 001

Unlimited Attempts.

$$v_1(t) = -4 \cdot \cos\left(10t + \frac{\pi}{4}\right) \text{ V}$$
$$v_2(t) = 3 \cdot \sin\left(10t + \frac{\pi}{3}\right) \text{ V}$$

Express as phasors

$$\mathbf{V_1} = A_1 \cdot e^{jB_1} \quad \text{with} \quad 0 \leq A_1 \quad \text{and} \quad -180° \leq B_1 \leq 180°$$

$$\mathbf{V_2} = A_2 \cdot e^{jB_2} \quad \text{with} \quad 0 \leq A_2 \quad \text{and} \quad -180° \leq B_2 \leq 180°$$

Given Variables:

. : . .

Calculate the following:

A1 (V) :

4 ✓

B1 (degrees) :

-135 ✓

A2 (V) :

3 ✓

B2 (degrees) :

-30 ✓

> Hint: Convert sin() to cos() first