ENGR 2910: Circuit Analysis I

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Quiz 10: Wednesday, Dec. 1

Question 1 [2]

You have the following two complex numbers:

$$x = 8 + \jmath 16 \text{ and } y = 12 + \jmath 3$$

(i) Write x in polar form.

(ii) Write y in polar form.

Question 2 [2]

You have the following two complex numbers:

$$x = 8 + \jmath 16 \text{ and } y = 12 + \jmath 3$$

(i) Write $x + y$ in polar form.

(ii) Write $x - y$ in polar form.

Question 3 [3]

You have the following two complex numbers:

$$x = 8 + \jmath 16 \text{ and } y = 12 + \jmath 3$$

(i) What is: xy (in complex form)?

(ii) What is: xy (in polar form)?

Question 4 [3]

You have the following two complex numbers:

$$x = 8 + \jmath 16 \text{ and } y = 12 + \jmath 3$$

(i) What is x/y (in complex form)?

(ii) What is x/y (in polar form)?