

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

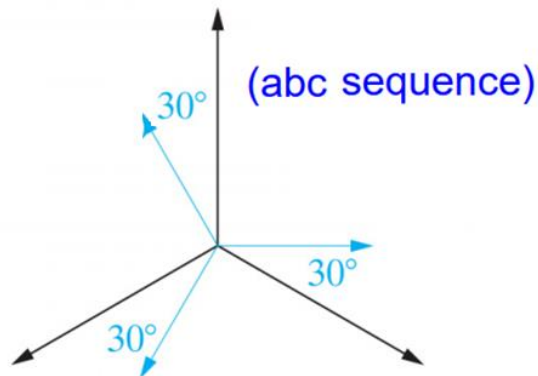
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EE-306

Key Solution

Quiz 1 Sec.: 3 I.D.: Ser#: Name:

Q.1 The phasor diagram below, has the same variables (either V or I), is for (5-points)



- a. phase and line voltages of Y-connected load.
- b. phase and line currents of Y-connected load.
- c. phase and line voltages of delta-connected load.
- d. phase and line currents of delta-connected load.

Q.2 In a Y-connected source feeding directly a Y-connected inductive-load, (5-points)

- a. phase-current of the source lags the line-current of the source.
- b. phase-current of the source leads the line-current of the source.
- c. phase-current of the source is in-phase of the line-current of the source.
- d. line-current magnitude of the source is its phase-current magnitude multiplied by $\sqrt{3}$.