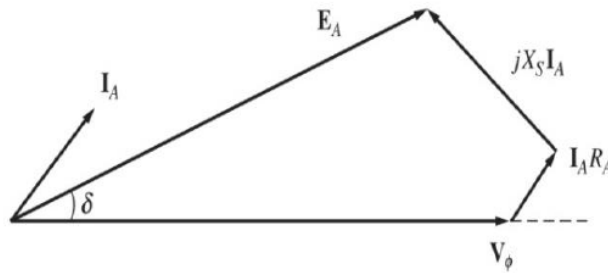Quiz 5   Sec.:   I.D.:   Ser#:   Name:
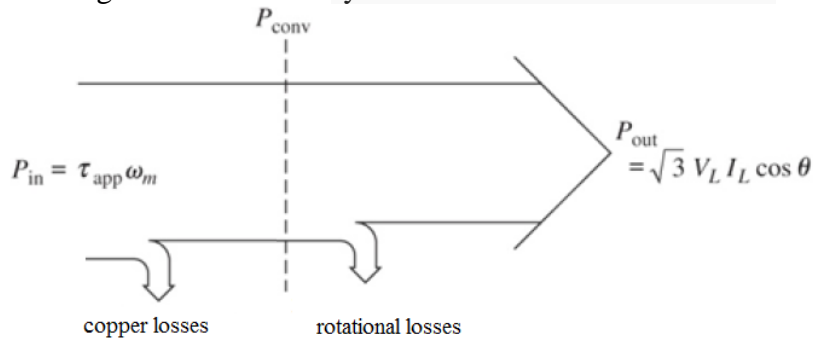
Circle the correct answer.
1) The phasor diagram shown below is for   (3 Marks)

   a. An over-excited synchronous generator.
   b. An under-excited synchronous generator.
   c. An over-excited synchronous motor.
   d. An under-excited synchronous motor.

2) The power flow diagram below is for synchronous Generators.   (2 Marks)

   a. True.
   b. False.

3) The output power of a synchronous motor with negligible armature resistance is (3 Marks)

$$P_{out} = \frac{3|V_t||E_A|sin\delta}{X_S}$$

   a. True.
   b. False.

4) The torque angle for a synchronous motor of leading and lagging power-factor loads is negative.   (2 Marks)
   a. True.
   b. False.