

3.14 | QUESTIONS

- 3-1. Is the turns ratio of a transformer the same as the ratio of voltages across the transformer? Why or why not?
- 3-2. Why does the magnetization current impose an upper limit on the voltage applied to a transformer core?
- 3-3. What components compose the excitation current of a transformer? How are they modeled in the transformer's equivalent circuit?
- 3-4. What is the leakage flux in a transformer? Why is it modeled in a transformer equivalent circuit as an inductor?
- 3-5. List and describe the types of losses that occur in a transformer.