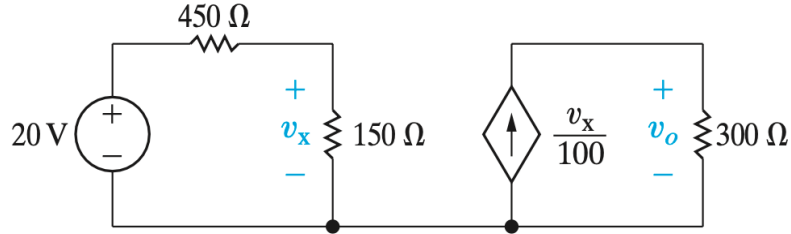
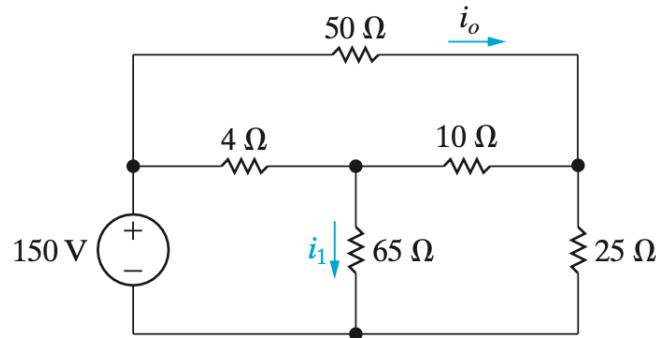


EEM19215E – Electric Circuits
Midterm Exam (25/11/2021) 13:00-14:40**Student Name:****Student ID:****Q.1: (10 Points)**For the circuit shown below, find v_o and the total power absorbed in the circuit.

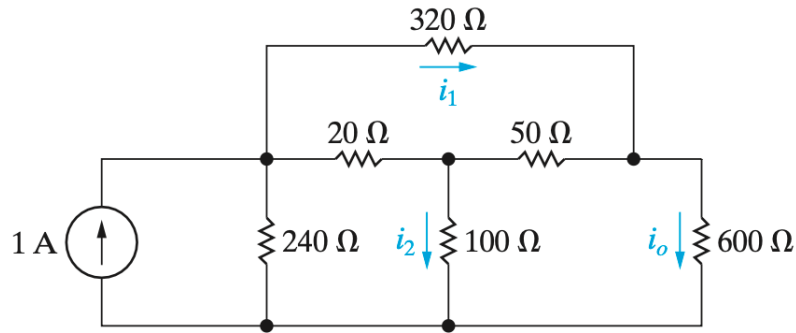
EEM19215E – Electric Circuits
Midterm Exam (25/11/2021) 13:00-14:40**Student Name:****Student ID:****Q.2: (10 Points)**The current i_o in the circuit shown below is 1 A.

- Find i_1
- Find the power dissipated in each resistor.
- Verify that the total power dissipated in the circuit equals the power delivered by the 150 V source.



EEM19215E – Electric Circuits
Midterm Exam (25/11/2021) 13:00-14:40**Student Name:****Student ID:****Q.3: (10 Points)**

Use a Y-to- Δ transformation to find (a) i_o ; (b) i_1 ; (c) i_2 ; and (d) the power delivered by the ideal current source in the circuit below.



EEM19215E – Electric Circuits
Midterm Exam (25/11/2021) 13:00-14:40

Student Name:

Student ID:

Q.4: (10 Points)

Find v_1 and v_2 in the circuit below using voltage and/or current division.

