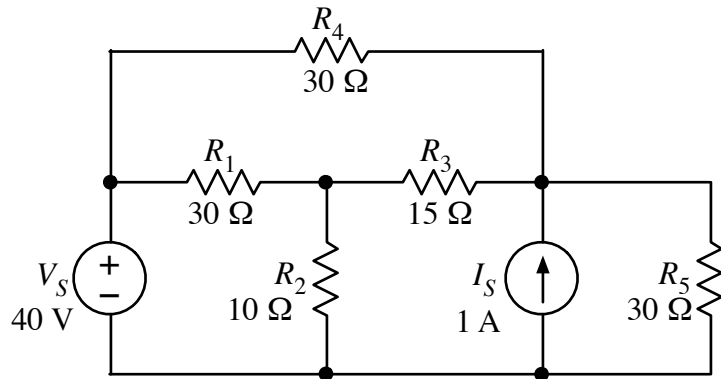Use the node-voltage method to calculate the powers dissipated in each resistor and the power generated (or absorbed) by the sources.

$P_{VS} =$ _____

$P_{IS} =$ _____

$P_{R1} =$ _____; $P_{R2} =$ _____; $P_{R3} =$ _____

$P_{R4} =$ _____; $P_{R5} =$ _____

R_4

$30\ \Omega$

R_1 R_3

$30\ \Omega$ $15\ \Omega$

V_S R_2 I_S R_5

$40\ V$ $10\ \Omega$ $1\ A$ $30\ \Omega$

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.