R_x

10 A

$3\,\Omega$ $5\,\Omega$ $20\,\Omega$
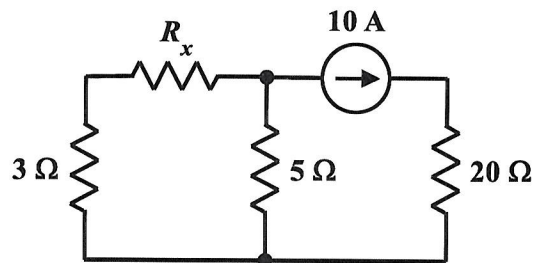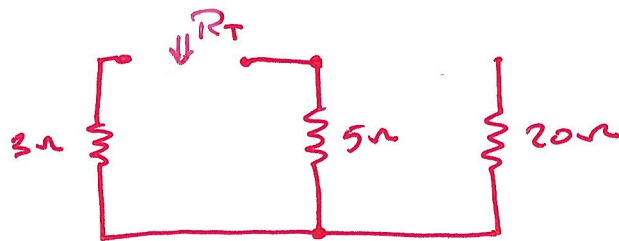
What value of R_x will absorb maximum power from the remainder of the circuit?

Choose R_x equal to the Thévenin equivalent resistance w.r.t. the load terminals:

R_T

3Ω 5Ω 20Ω

$$R_T = 3\Omega + 5\Omega = 8\Omega$$

$$\therefore \quad \text{choose} \quad R_x = 8\Omega$$