Problem 2.35  Simplify the circuit to the right of terminals \((a, b)\) in Fig. P2.35 to find \(R_{eq}\), and then determine the amount of power supplied by the voltage source. All resistances are in ohms.

Solution:

\[
\begin{align*}
R_{eq} &= 3 + 2 = 5 \Omega \\
P &= \frac{V^2}{R_{eq}} = \frac{(25)^2}{5} = 125 \text{ W}.
\end{align*}
\]