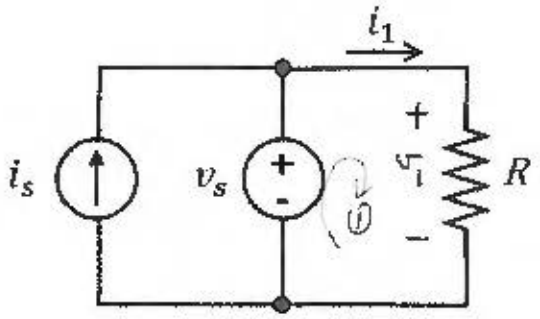
Find the current i_1 and the power P_1 received by the resistor.

Then change the current source to 5A. Recalculate the current i_1 (renaming it to i_2) and the power P_2 received by the resistor.

Vs = 16 V

Is = 4 A

R = 16 Ω



KVL①: $v_s = v_1 \Rightarrow v_1 = 16\,V$

$$i_1 = \frac{v_1}{R} = \frac{16}{16} \Rightarrow \boxed{i_1 = 1A}$$

$$P_1 = i_1^2 \cdot R = 1^2 \cdot 16 \Rightarrow \boxed{P_1 = 16\,W}$$

received

When $i_s = 5A$

v_1 still the same. $v_1 = 16\,V \Rightarrow i_2 = \frac{v_1}{R}$

$$\boxed{i_2 = 1A}$$

$$P_2 = i_2^2 R \qquad \boxed{P_2 = 16\,W}$$

received