Determine the resistance R_1 such that the power dissipated in R_2 is maximum.
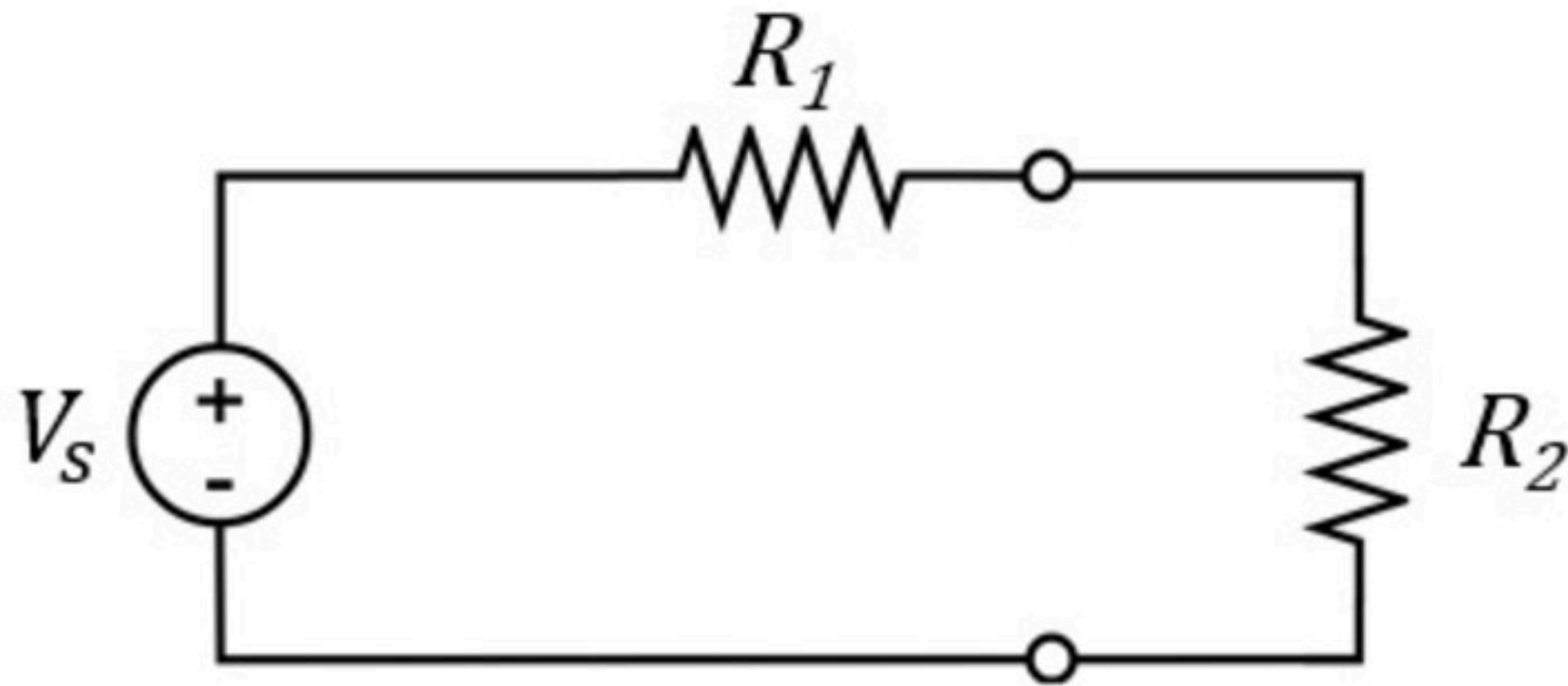
Given Variables:

Vs : 12 V

R2 : 7 ohm

Calculate the following:

R1 (ohm) :