Problem has been graded.

Given the ammeter reading X,
find the value of resistance R_4.

10 A

i_2

R_1

R_2

I_b

i_1

R_4

i_3

A-meter

R_3

R_5
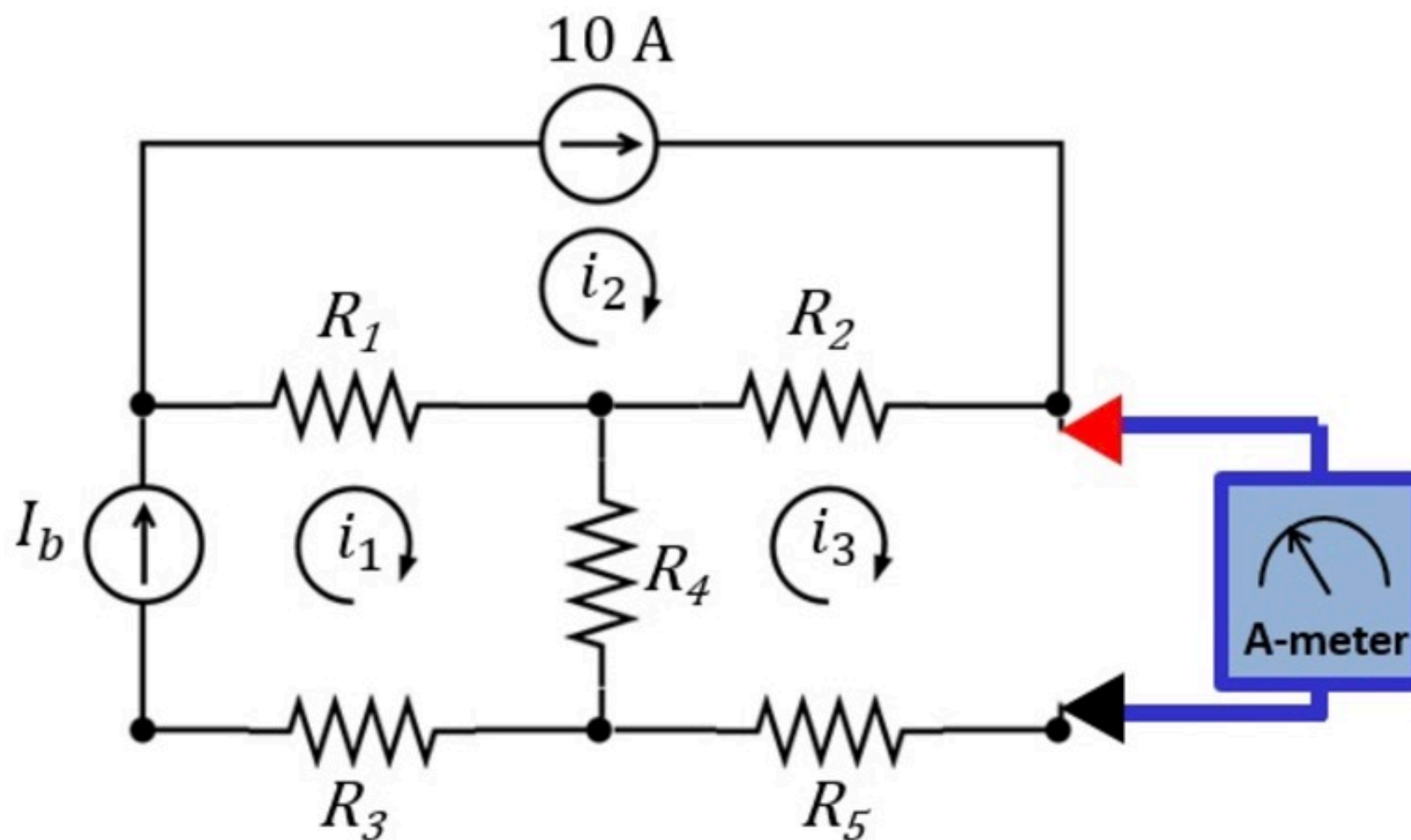
Given Variables:

R1 : 2 ohm

R2 : 3 ohm

R3 : 2 ohm

R5 : 5 ohm

X : 3 A

Ib : 1 A

Calculate the following:

R4 (ohm) :

Hint: Find the voltage over R4 using KVL in any loop