Special Problem 1.5-3

Two amplifiers are cascaded together, as shown below.

For amplifier A, the relevant parameters are:

A_{vo} = 100
R_i = 9K
R_o = 900

For amplifier B, they are:

A_{vo} = 50
R_i = 100
R_o = 1 K

1) What then is the value v_o/v_i ?

2) What would be the value of v_o/v_i if the gain of the second amplifier is **reduced** to A_{vo} = 10, **and** its output resistance also reduced to 10 Ω?