Special Problem 1.5-2

Amplifier A1 has:

      an input resistance of **750** Ω.

      an output resistance of **10K**Ω.

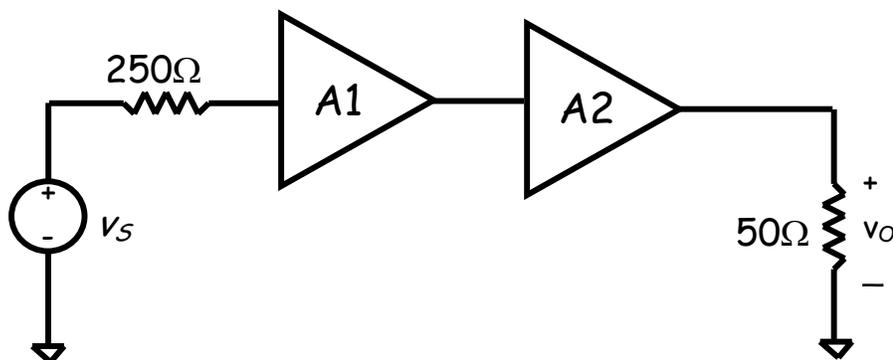   an open-circuit voltage gain of **100 V/V**.

Amplifier A2 has:

      an input resistance of **30 K**Ω.

      an output resistance of **50** Ω.

      an open circuit voltage gain of **1 V/V**.

A voltage source with a source resistance of **250**Ω is connected to the input of the common-emitter amp.

The output of the first amp (A1) is connected to the input of the second (A2).

The output of the second amp is connected to a load of **50** Ω.

I.E.,

What is the value of v_o/v_s ?