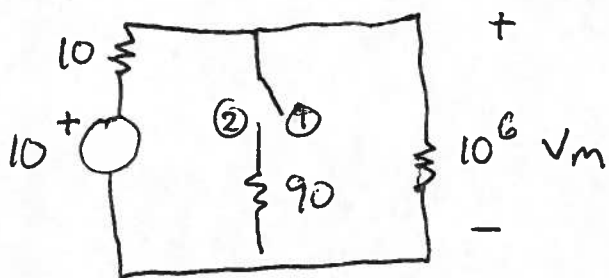


Instructions: Attempt all parts. This is a closed book exam. Calculators can be used.

1. Consider the following circuit:



a) with the switch open (position 1) a meter with input resistance $10^6 \Omega$ is used to produce a voltage measurement V_m . What is the reading?

b) Repeat with switch closed (position 2).

2. Determine the current i_1 in the circuit below.

