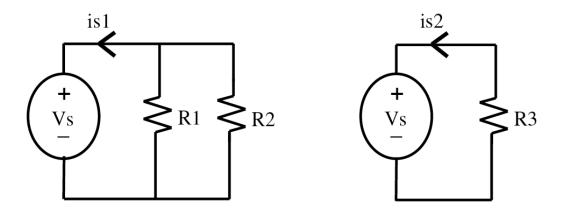
Problem Wk.7.2.1: Parallel Resistors

This problem is intended to help you build up some intuition about resistors in parallel and should be done without a calculator. The questions below refer to the following two circuits.



- 1. If $R_1 = R_2 = 100$ Ohms, for what value of R_3 will $i_{s1} = i_{s2}$? R_3 (enter floating point number): Ohms
- 2. If R_1 = 100 Ohms, and R_2 = 10,000 Ohms = 10K Ohms, for *approximately* what value of R_3 will i_{s1} = i_{s2} R₃ (enter floating point number):
- 3. If $R_1 = 100$ Ohms, $R_2 = 1$ Ohms, for *approximately* what value of R_3 will $i_{S1} = i_{S2}$? R_3 (enter floating point number):

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