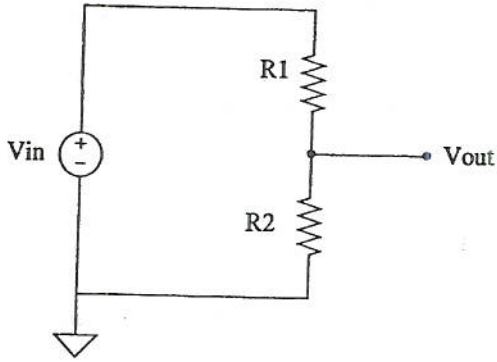


17. A circuit known as a "voltage divider" is shown below. If V_{in} is 9V and R_2 is 100 Ohms, what value of R_1 will make $V_{out} = 3V$? Show how Kirchoff's Voltage Law and Ohm's Law are used to arrive at your solution.



ANS: $R_1 = 200\Omega$