

**P2.** An electric circuit made from two resistors  $R_1$  and  $R_2$  is put in a perpendicular and homogeneous magnetic field  $B$ . A third resistor  $r$  on a thin and conducting rod is moving with a constant velocity  $v$  across the parallel wires of the circuit (See the figure!). Calculate the current of each resistor. The contacts between the rod and wires are perfect.

