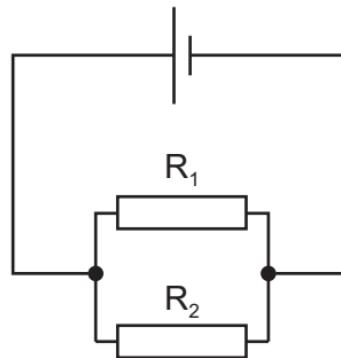


33 Two resistors R_1 and R_2 are made from wire of the same material.

They are connected in parallel to each other in a circuit, as shown.



The diameter of R_2 is half the diameter of R_1 .

The resistance of R_2 is three times the resistance of R_1 .

What is the value of the ratio $\frac{\text{average drift speed of free electrons in } R_1}{\text{average drift speed of free electrons in } R_2}$?

A $\frac{3}{2}$

B $\frac{3}{4}$

C $\frac{1}{6}$

D $\frac{1}{12}$