Young's moduli of two wires A and B are in the ratio 7:4. 8. Wire A is 2 m long and has radius R. Wire B is 1.5 m long and has radius 2 mm. If the two wires stretch by the same length for a given load, then the value of R is close to : [8 April 2019 II] (b) 1.9 mm (c) 1.7 mm (d) 1.3 mm (a) 1.5 mm





 $\therefore R = 1.75 \,\mathrm{mm}$