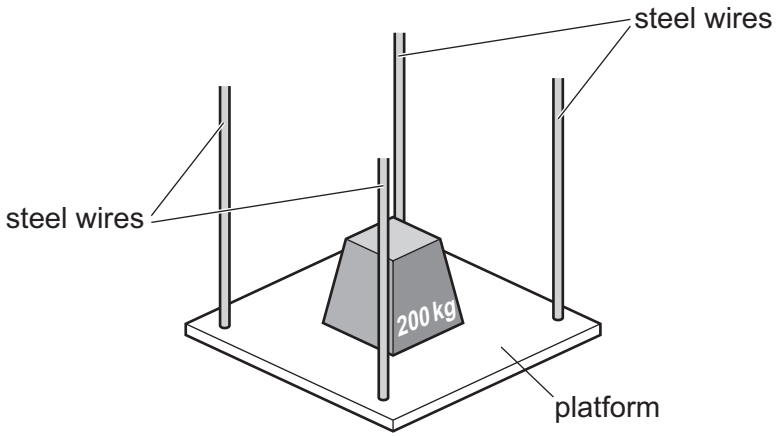
20 A platform is suspended by four steel wires. Each wire is 5.0 m long and has a diameter of 3.0 mm. The Young modulus of steel is 2.1×10^{11} Pa.



The wires obey Hooke's law when a load of mass 200 kg is placed on the platform.

How far will the platform descend because of the extension of the wires?

A 1.7×10^{-4} m **B** 4.1×10^{-4} m **C** 1.7×10^{-3} m **D** 6.6×10^{-3} m