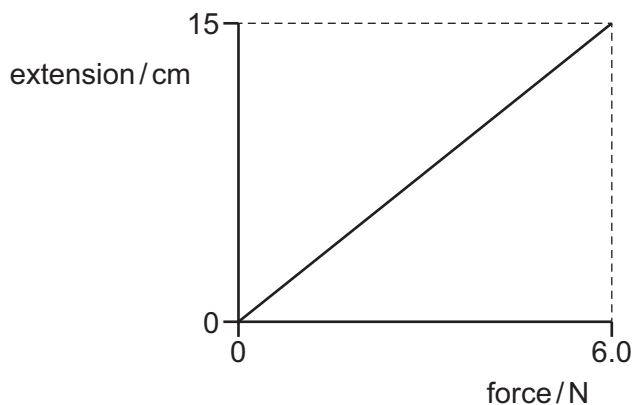
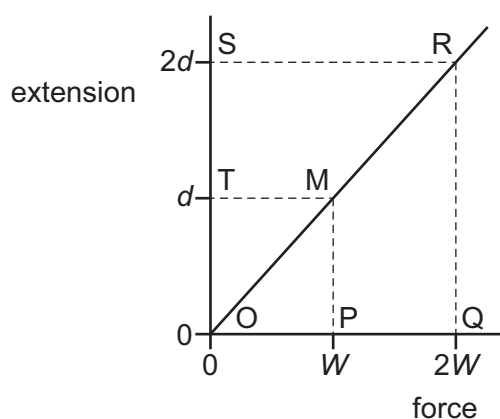


- 19 An extension–force graph for a spring is shown.



What is the spring constant of the spring?

- A** 0.025 N m^{-1} **B** 0.40 N m^{-1} **C** 2.5 N m^{-1} **D** 40 N m^{-1}
- 20 A wire is extended by a force. The graph shows how the extension of the wire varies with the force applied.



Initially a force W gives an extension d . The force is then increased to $2W$. This increases the extension to $2d$.

Which area of the graph represents the work done by the force when the force increases from W to $2W$?

- A** ORQ **B** OQRS **C** ORS **D** TMRS