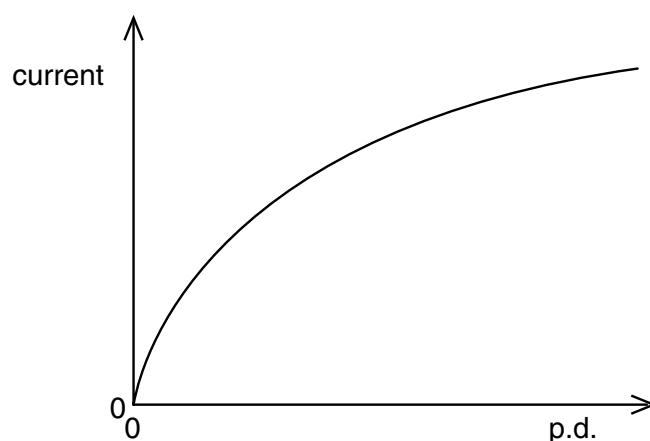


- 31** The graph shows how the current through a lamp filament varies with the potential difference across it.



Which statement explains the shape of this graph?

- A** As the filament temperature rises, electrons can pass more easily through the filament.
- B** It takes time for the filament to reach its working temperature.
- C** The power output of the filament is proportional to the square of the current through it.
- D** The resistance of the filament increases with a rise in temperature.