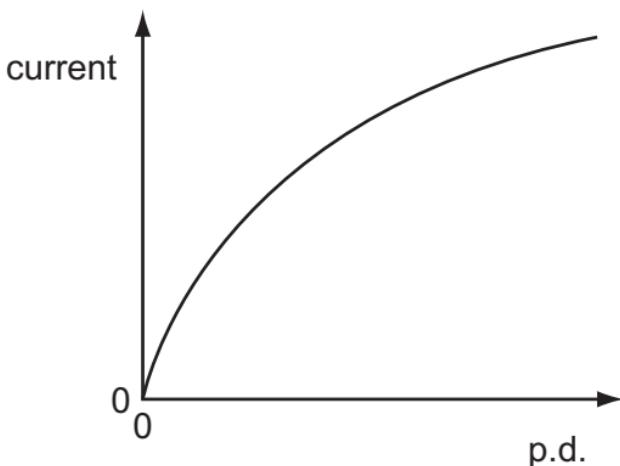


33 The graph shows the variation with potential difference (p.d.) of the current in a lamp filament.



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 in it.
- D** The resistance of the filament increases with a rise in temperature.

34 Two electrically conducting cylinders X and Y are made from the same material.