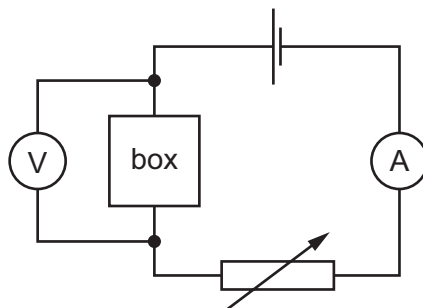
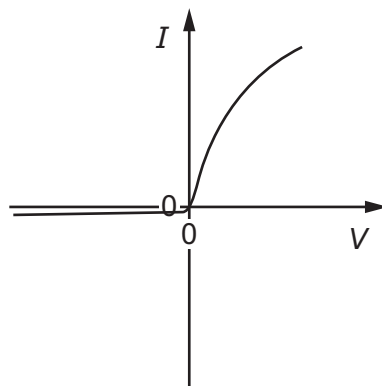


35 A box containing two electrical components is connected into a circuit.



The variable resistor is adjusted and measurements are taken to determine the I – V characteristic for the box, as shown.



Which arrangement of two electrical components in the box would create the best fit to the measured I – V characteristic?

- A** a filament lamp and a fixed resistor in parallel
- B** a filament lamp and a fixed resistor in series
- C** a semiconductor diode and a filament lamp in parallel
- D** a semiconductor diode and a filament lamp in series