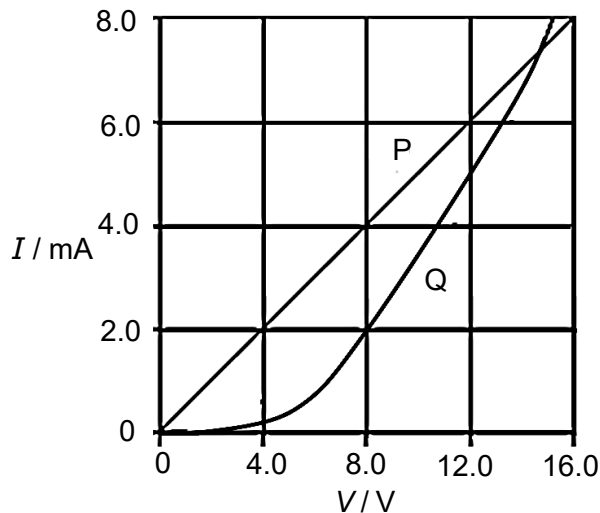


**20** The  $I$ - $V$  characteristics of two electrical components P and Q are shown below.



Which of the following statements is correct?

- A** P is an ohmic conductor and Q is a filament.
- B** Resistance of Q is always larger than resistance of P.
- C** At 2.0 mA, the power dissipated through Q is twice that of P.
- D** At the point where the two lines intersect the resistance of Q is approximately twice that of P.

**21** The diagram shows a network of three identical resistors connected to a battery of negligible