

- 36** A potentiometer circuit is used to determine the electromotive force (e.m.f.)  $E_x$  of a cell. The circuit includes a second cell of known e.m.f.  $E_0$  and negligible internal resistance, and a uniform resistance wire PQ of known length.

$E_x$  is less than  $E_0$ .

The movable connection J can be positioned anywhere along the length of the resistance wire.

Which circuit is suitable for determining  $E_x$ ?

