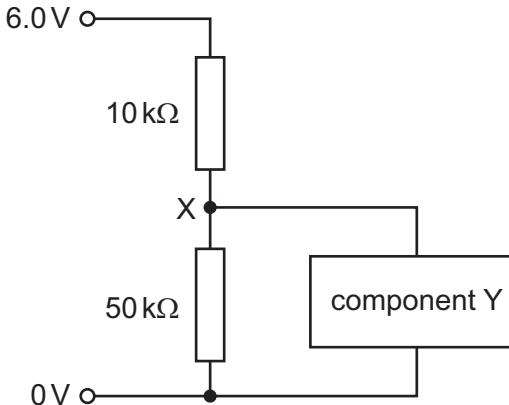


38 The circuit shown consists of two resistors of resistances  $10\text{ k}\Omega$  and  $50\text{ k}\Omega$  and a component Y.

A  $6.0\text{ V}$  supply is provided. The electric potential of the bottom wire is  $0\text{ V}$ .



The current in component Y is negligible.

What is the electric potential at junction X?

**A**  $1.0\text{ V}$

**B**  $1.2\text{ V}$

**C**  $4.8\text{ V}$

**D**  $5.0\text{ V}$