

Solutions

Each answer shows the steps, then the **result**.

2.1

- the total current into a junction equals the total current out

2.2

- conservation of charge

2.3

- $I = 5.0 - 2.0 = 3.0 \text{ A}$

3.1 B

3.2 B

3.3

(a)

- $I = 8.0 - 3.0 - 2.0 = 3.0 \text{ A}$

(b)

- Kirchhoff's junction rule