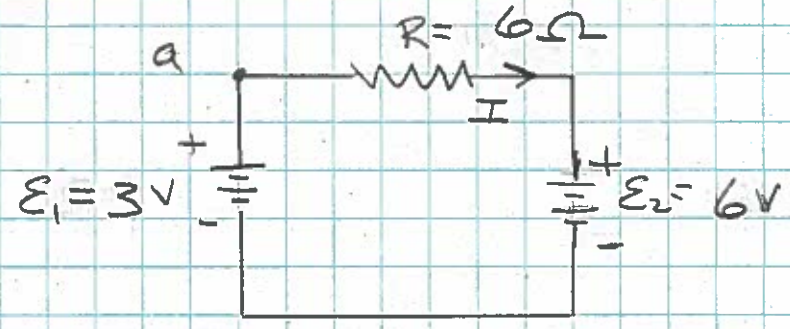

Assume I as shown.

Loop equation from a: $-IR - \mathcal{E}_2 + \mathcal{E}_1 = 0$

$$\therefore \quad I = \frac{\mathcal{E}_1 + \mathcal{E}_2}{R} = -0.5\ A$$

Negative sign ⇒ current in opposite what was assumed

∴ current right → left through the resistor

or, CCW