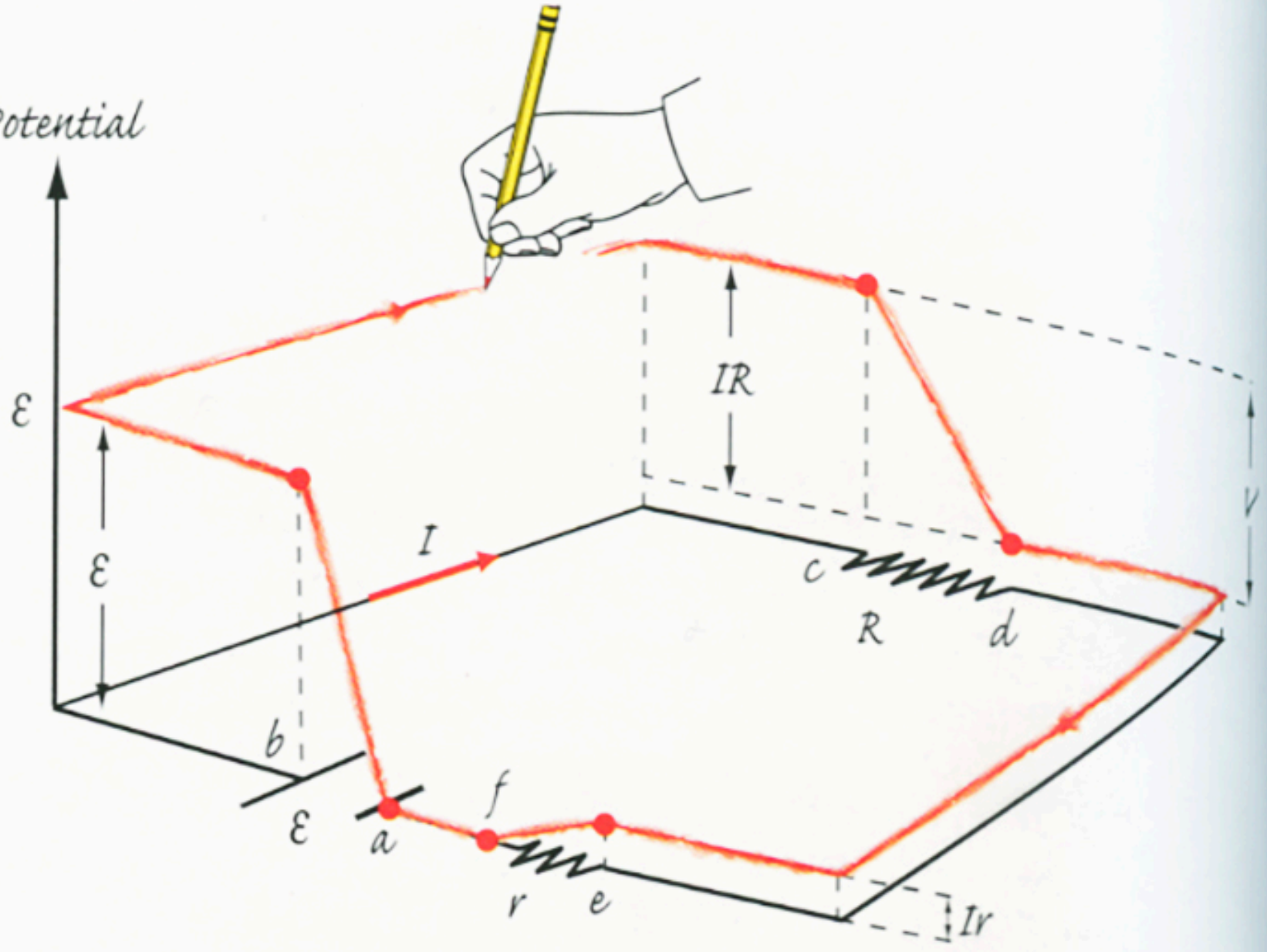
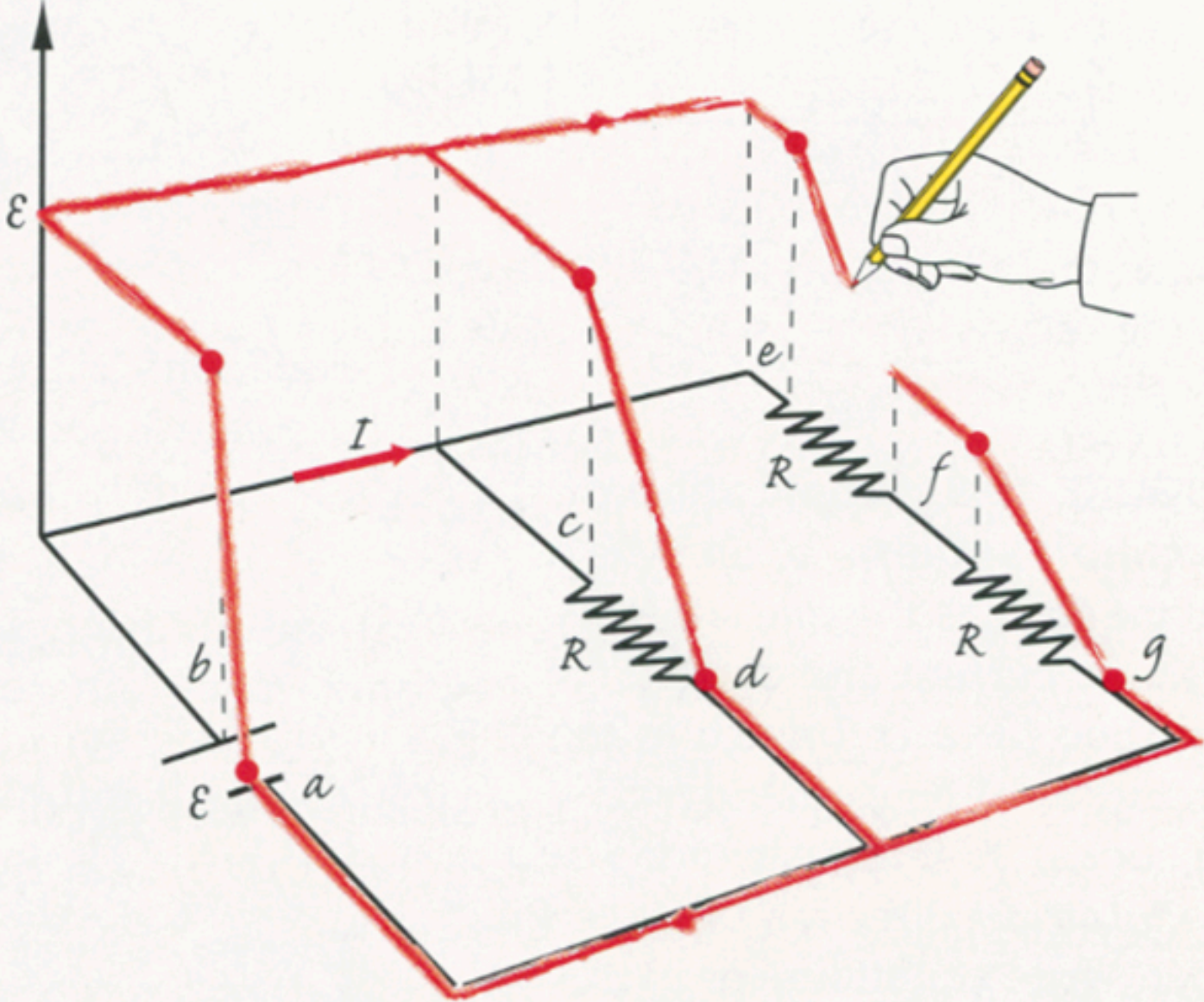
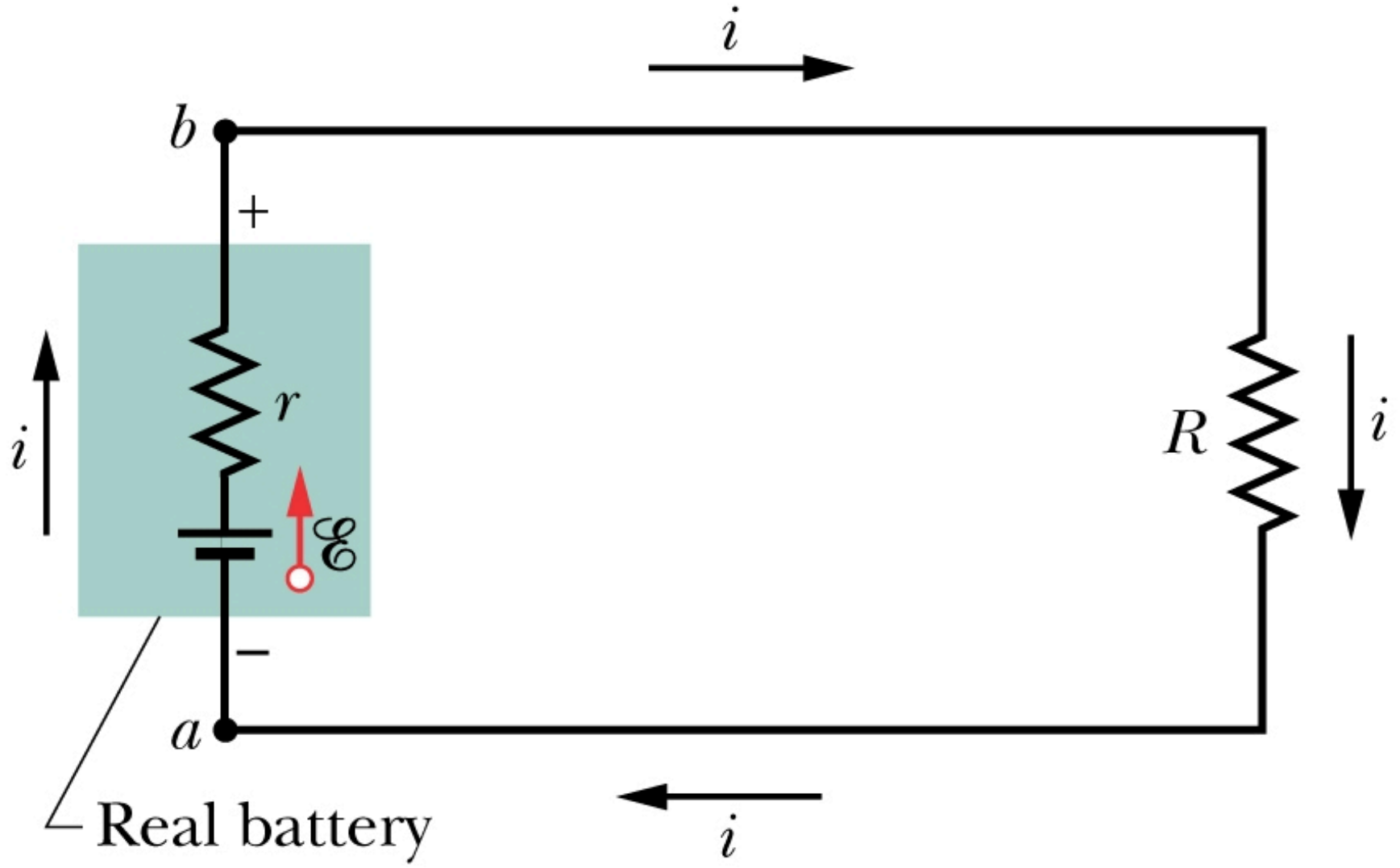


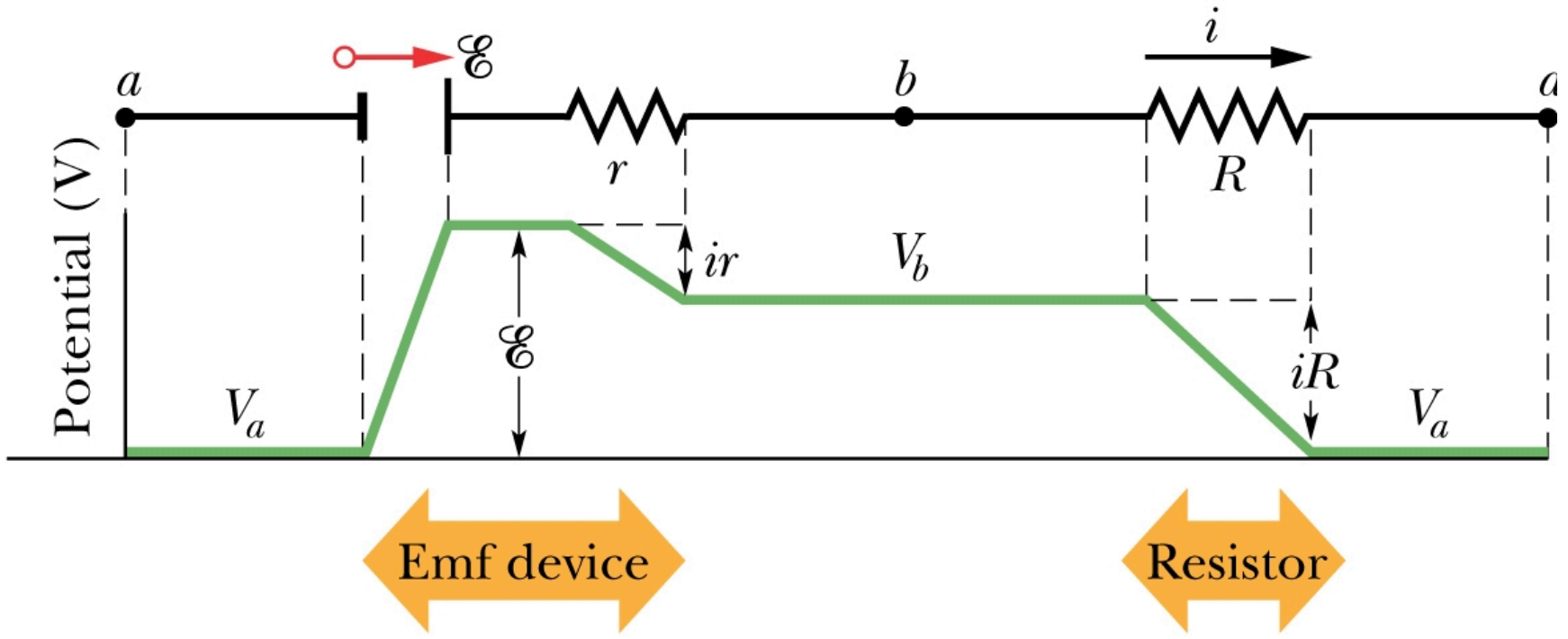
Potential

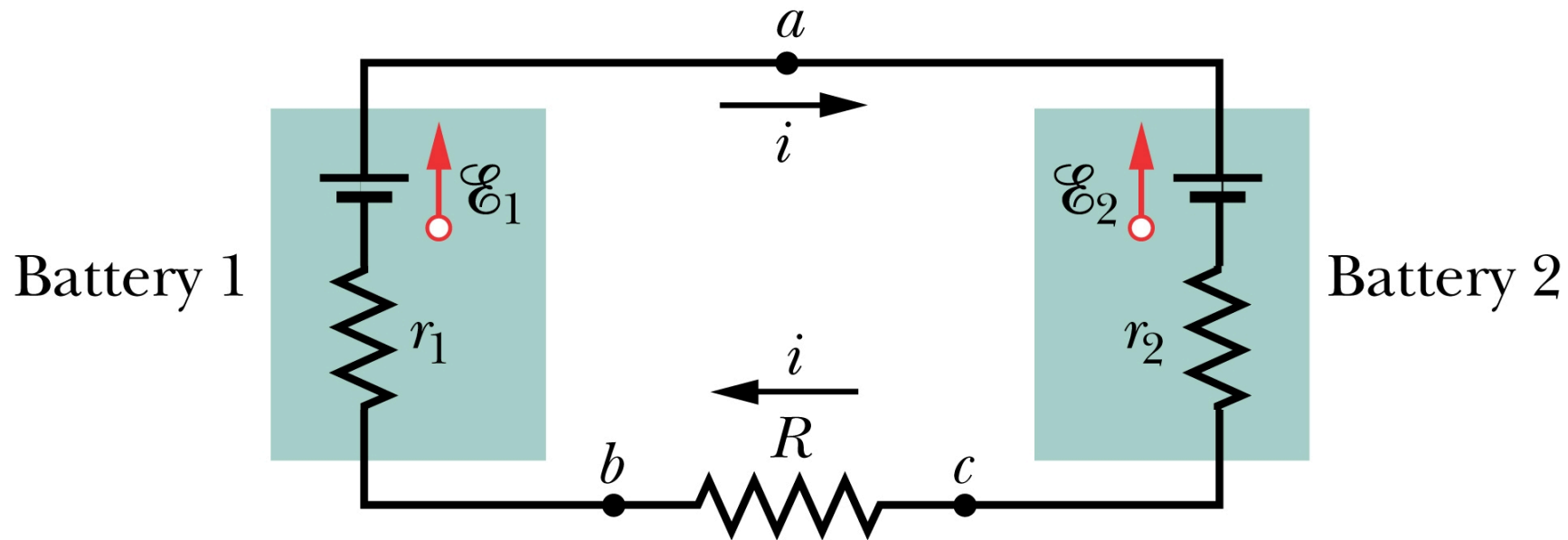


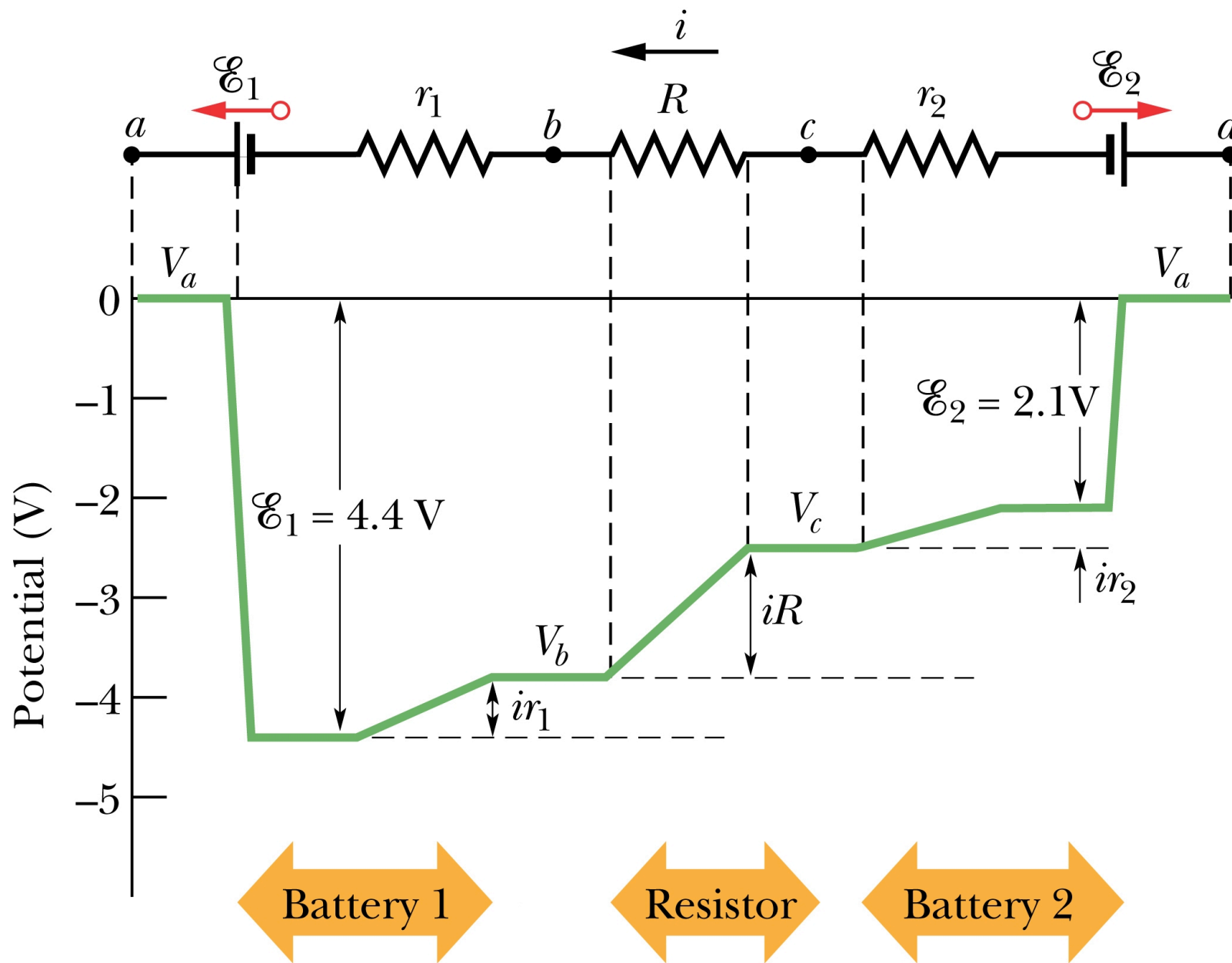
Potential











WolframAlpha computational knowledge engine.

Enter what you want to calculate or know about:

$68x + 100y + 0z = 4.5, 0x + 100y - 39z = 1.5, 1x - 1y - 1z = 0$



[Web Apps](#) [Examples](#) [Random](#)

Explore some of the things Wolfram|Alpha can do:

 Mathematics	 Step-by-step Solutions	 Words & Linguistics	 Units & Measures	 Statistical & Data Analysis
 People & History	 Dates & Times	 Chemistry	 Culture & Media	 Money & Finance
 Physics	 Art & Design	 Socioeconomic Data	 Astronomy	 Music
 Health & Medicine	 Engineering	 Places & Geography	 Food & Nutrition	 Education
 Materials	 Earth Sciences	 Life Sciences	 Weather & Meteorology	 Technological World
 Sports & Games	 Computational Sciences	 Transportation	 Web & Computer Systems	 Surprises

68x + 100y + 0z = 4.5, 0x + 100y - 39z = 1.5, 1x - 1y - 1z = 0



 Web Apps  Examples  Random

Input:

{68 x + 100 y + 0 z = 4.5, 0 x + 100 y - 39 z = 1.5, 1 x - 1 y - 1 z = 0}

Open code 

Result:

{68 x + 100 y = 4.5, 100 y - 39 z = 1.5, x - y - z = 0}

Solution:

$x \approx 0.0356126$, $y \approx 0.0207834$, $z \approx 0.0148292$

Step-by-step solution

Try it! 



Alternate forms:

$\{x + 1.47059 y = 0.0661765, y = 0.39 z + 0.015, x = y + z\}$



$\{y = 0.045 - \frac{17x}{25}, z = \frac{100y}{39} - 0.0384615, z = x - y\}$

$\{4(17x + 25y) = 4.5, 100y - 39z = 1.5, x - y - z = 0\}$



Alternate form assuming x, y, and z are positive:

$\{x + 1.47059 y = 0.0661765, y = 0.39 z + 0.015, x = y + z\}$

