Kirhhoff's Law

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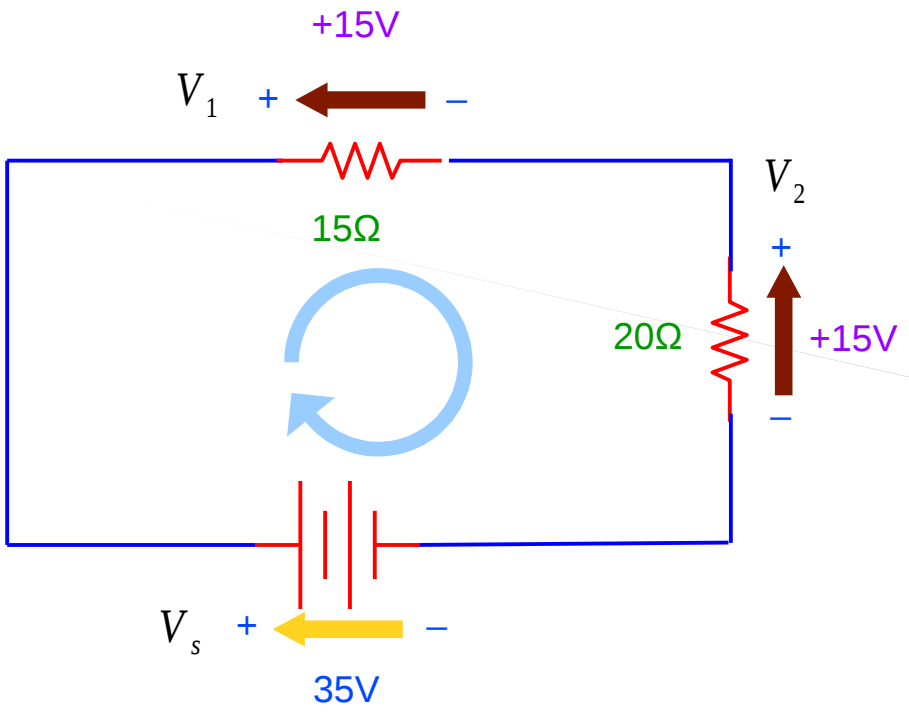
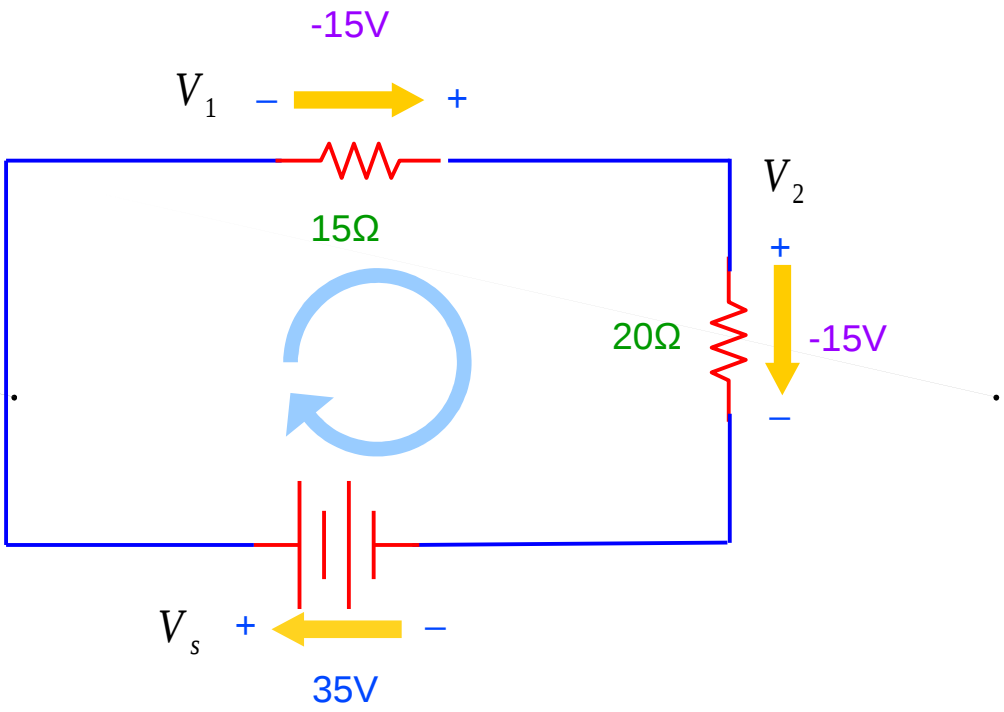
KVL





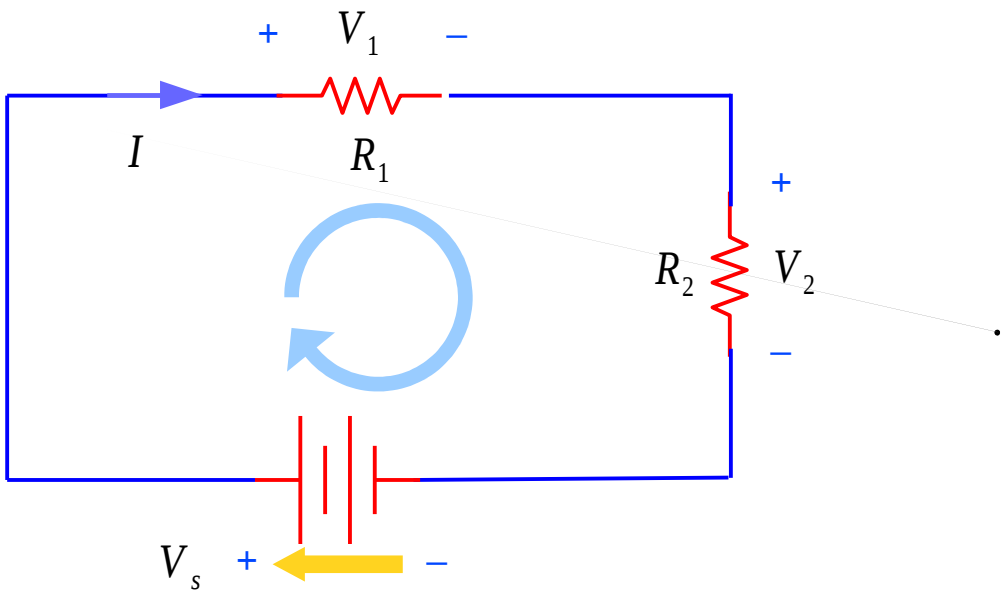
$$+V_s - V_1 - V_2 = 0$$

$$(+35) - (+15) - (+15) = 0$$

$$+V_s + V_1 + V_2 = 0$$

$$(+35) + (-15) + (-15) = 0$$

Use "–V_R " across resistors



$$+V_s - V_1 - V_2 = 0$$

$$+V_s - (I R_1) - (I R_2) = 0$$

References

[1] http://en.wikipedia.org/
[2] www.allaboutcircuits.com
[3]