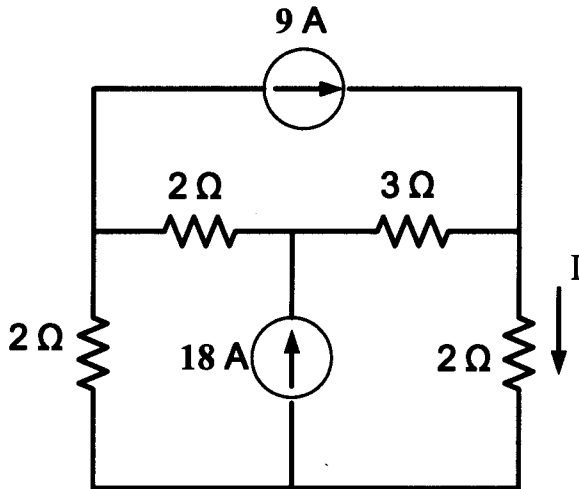
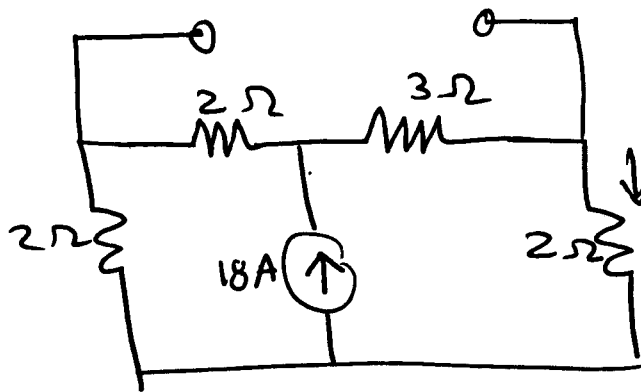


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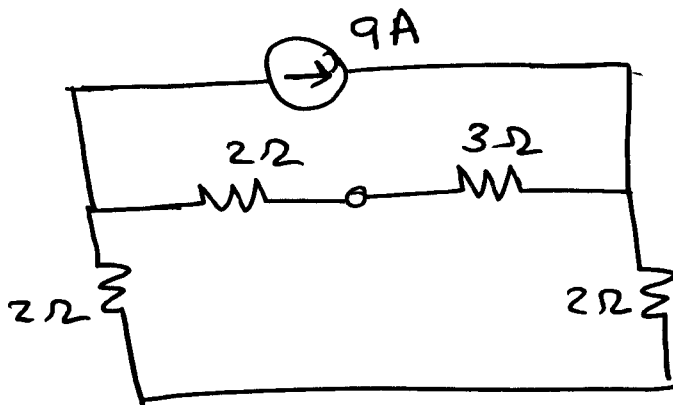


For the circuit shown above determine the current I using the superposition principle?



$$I' = \frac{(2+2)}{(2+2) + (3+2)} 18$$

$$= \frac{4}{9} 18 = 8 \text{ A}$$



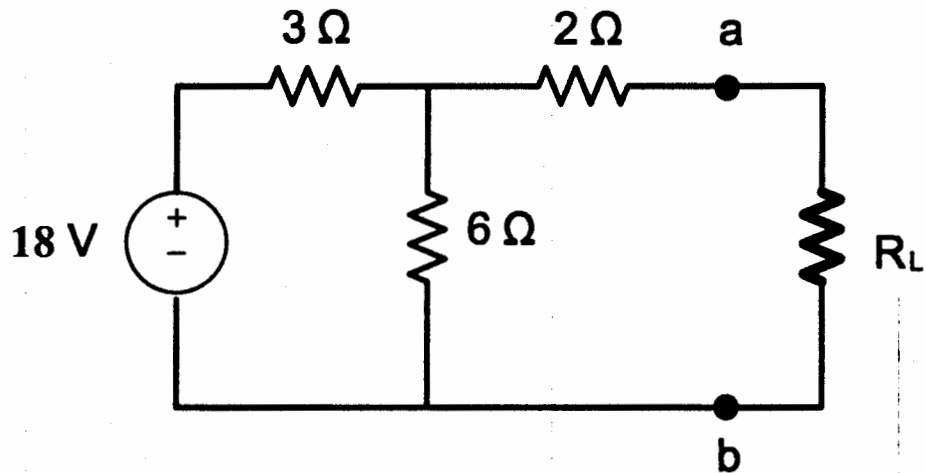
$$I'' = \frac{(3+2)}{(3+2) + (2+2)} 9$$

$$= 5 \text{ A}$$

$$\Rightarrow I = I' + I'' = 8 + 5 = \boxed{13 \text{ A}}$$

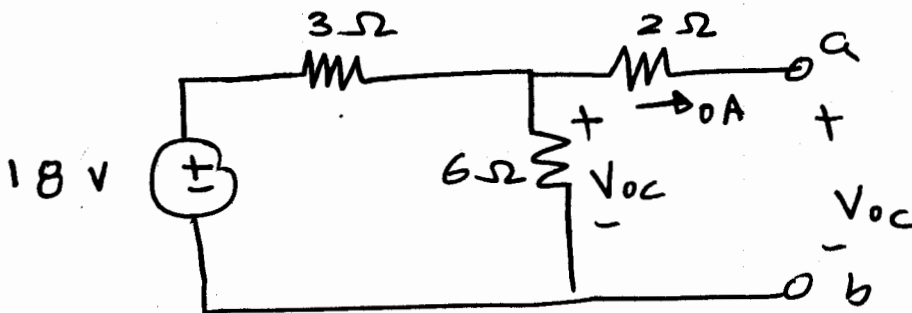
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For the circuit shown above determine the Thevinin equivalent to the left of a and b?

Removing the load R_L



$$V_{oc} = V_{6\Omega} = \frac{6}{3+6} 18 = \boxed{12V}$$

Deactivate the sources

