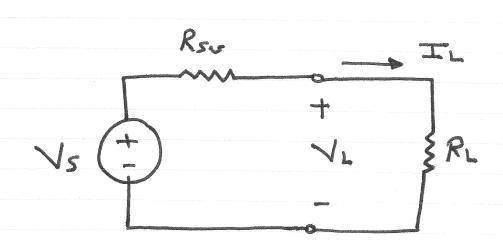
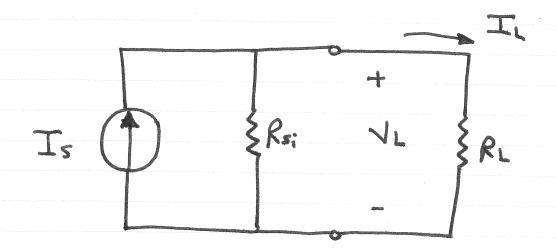
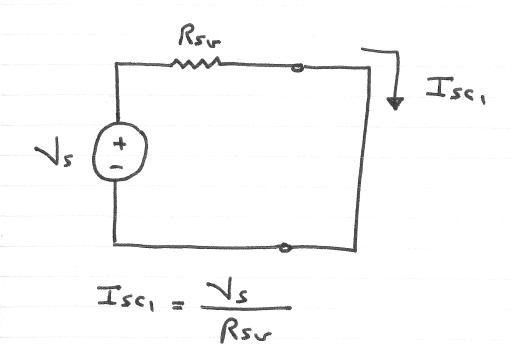
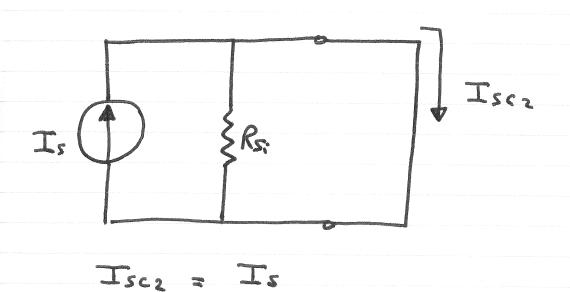
Source Transformation





Two sources are equivalent, if each produces identical Current and identical voltage in any Load which is placed a cross its terminal.

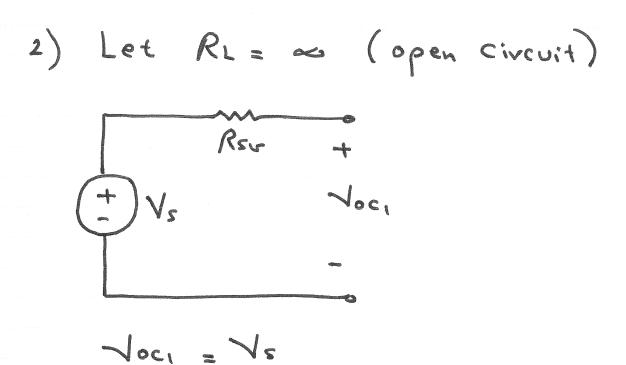


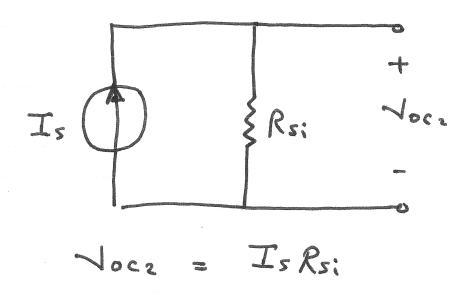


For
$$Tsc_1 = Tsc_2$$

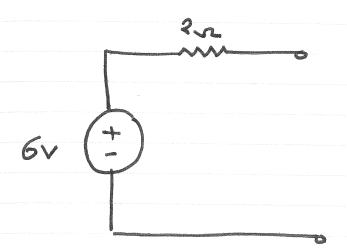
$$\frac{\sqrt{s}}{Rsr} = Ts$$

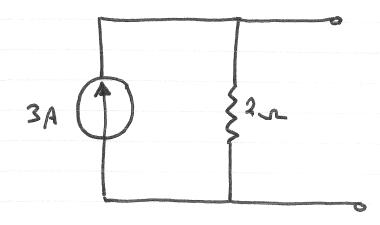
$$-92$$

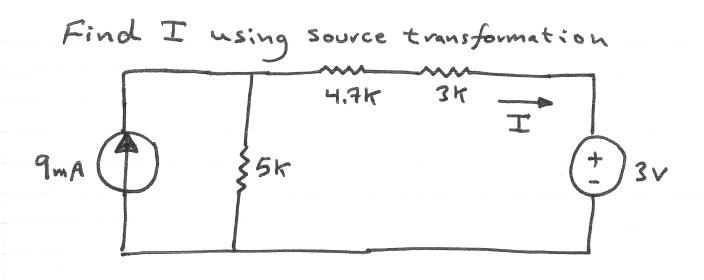


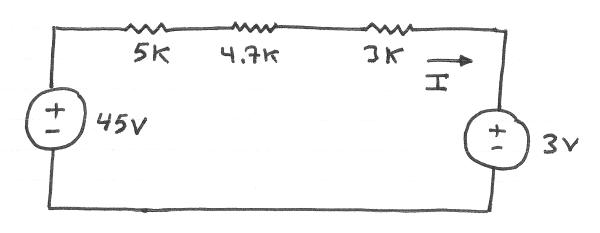


using equation (), we get





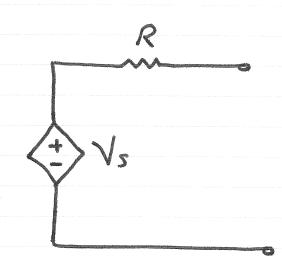


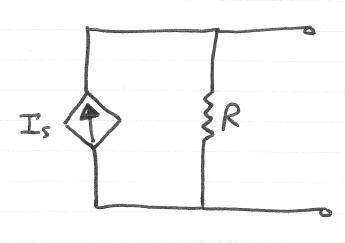


$$I = \frac{45-3}{5k+4.7k+3k} = 3.3 \text{ m A}$$

Source Transformation

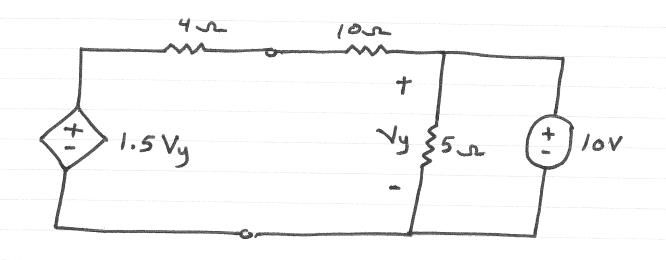
Dependent Sources

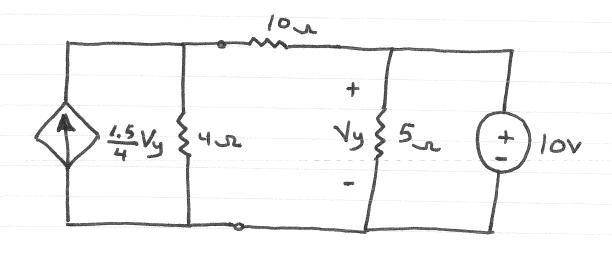




$$Is = \frac{\sqrt{s}}{R}$$

The Control Variable must be outside the transformation.





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