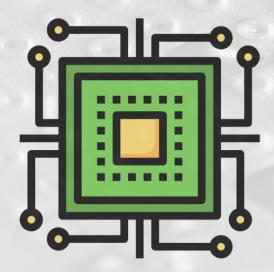
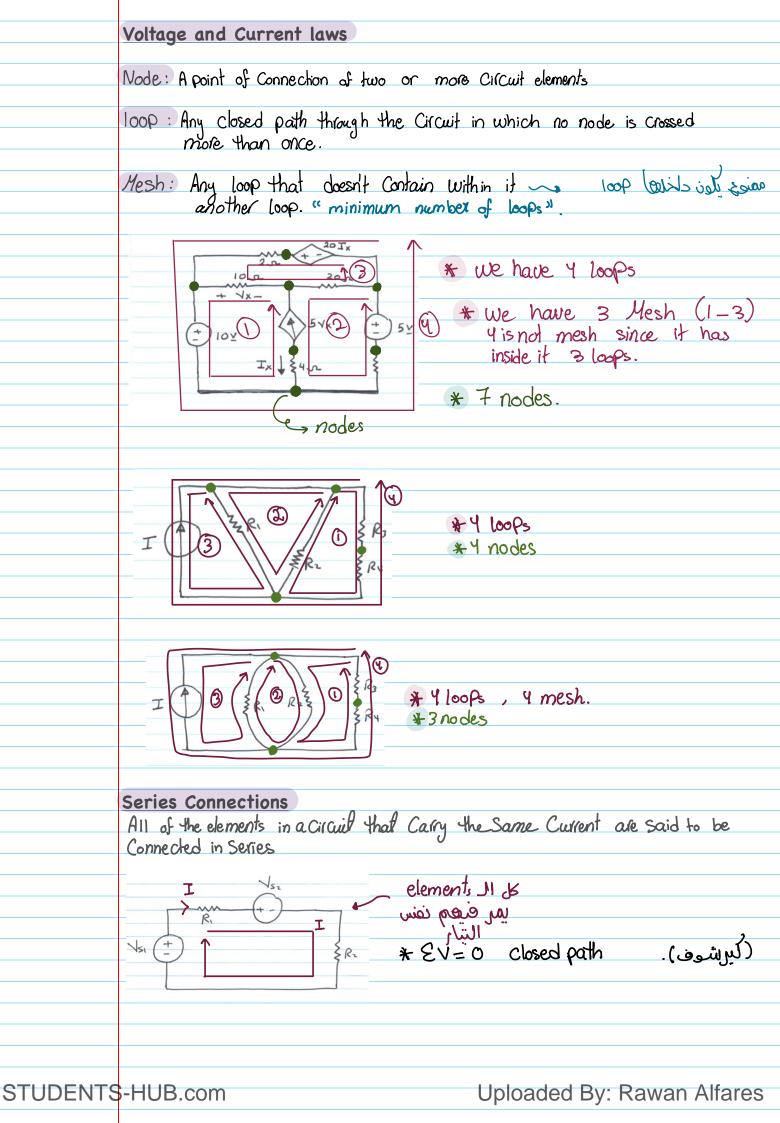
Circuits Analysis By Rawan Alfares



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Parallel Connections
elements in a Circlet having a Common Voltage a Closs them a.le.
Said to be connected in parallel.
SA
$$10^{10}$$
 10^{10}

Kirchhoff Current Low KCL
KCL: the algebric Sum of the Current entering any node is sero.

$$= ET = 0$$
, for each node.
 $= ET = 0$, for each node.
 $= ET = 0$ (+) sold us follow (+) s

$$by eq. 2$$

$$-3+4 - i_{x} = 0$$

$$i_{x} = 1 A$$

$$V_{x} = T_{3}R$$

$$= 4x^{2} = 87$$
Series And Parallel Sources
$$b Voltage Soulces Connected in Series Can be Combined into equivilant Source
$$f = f = f_{g}$$

$$V_{3} = V_{1} + V_{0} - V_{3}$$

$$current Sources Connected in Parallel Can be Combined into an equivilant Current Source.
$$f = f = f_{g}$$

$$T_{3} = f_{g}$$

$$T_{3} = T_{1} + T_{2} - T_{2}$$
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Impossible Circuits IA ξ R 5⊻ (+) (+)10y ₹R IA مستحيل يلون ماسرين جهد على التوازي. مستحيل بلون مادرين تيارات على التو الي ربنا تقبَّل منَّا إنَّك أنتَ السميعُ العليم STUDENTS-HUB.com Uploaded By: Rawan Alfares