HW#2 Solutions

Assignment problems:

2.13

2.17

2.25

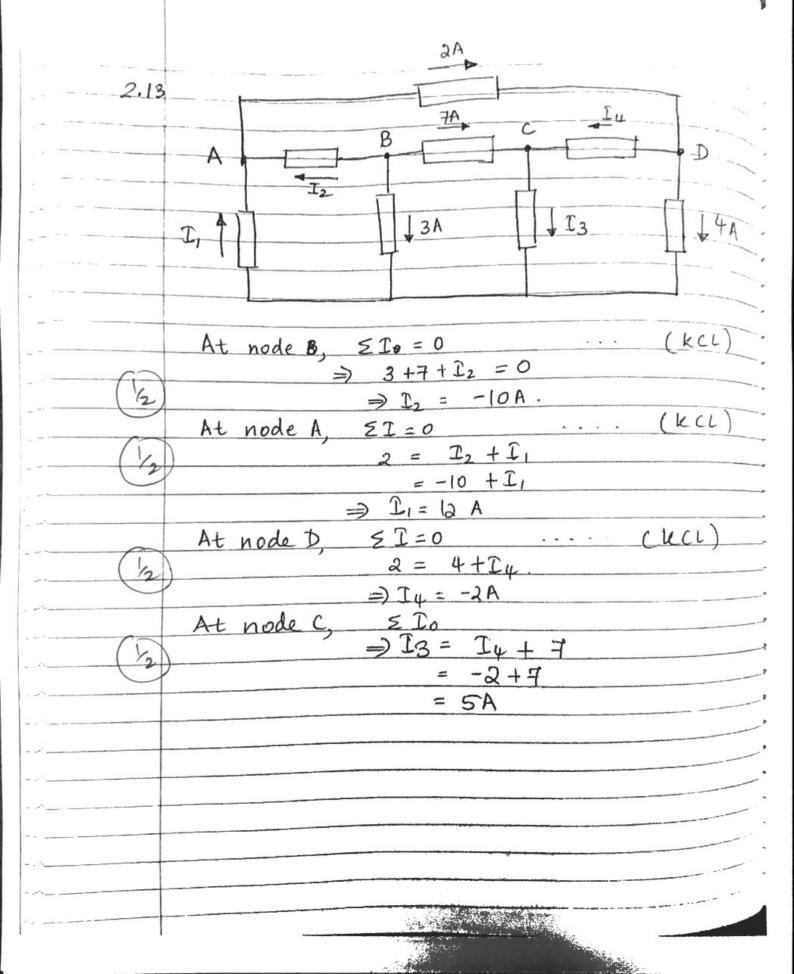
2.32

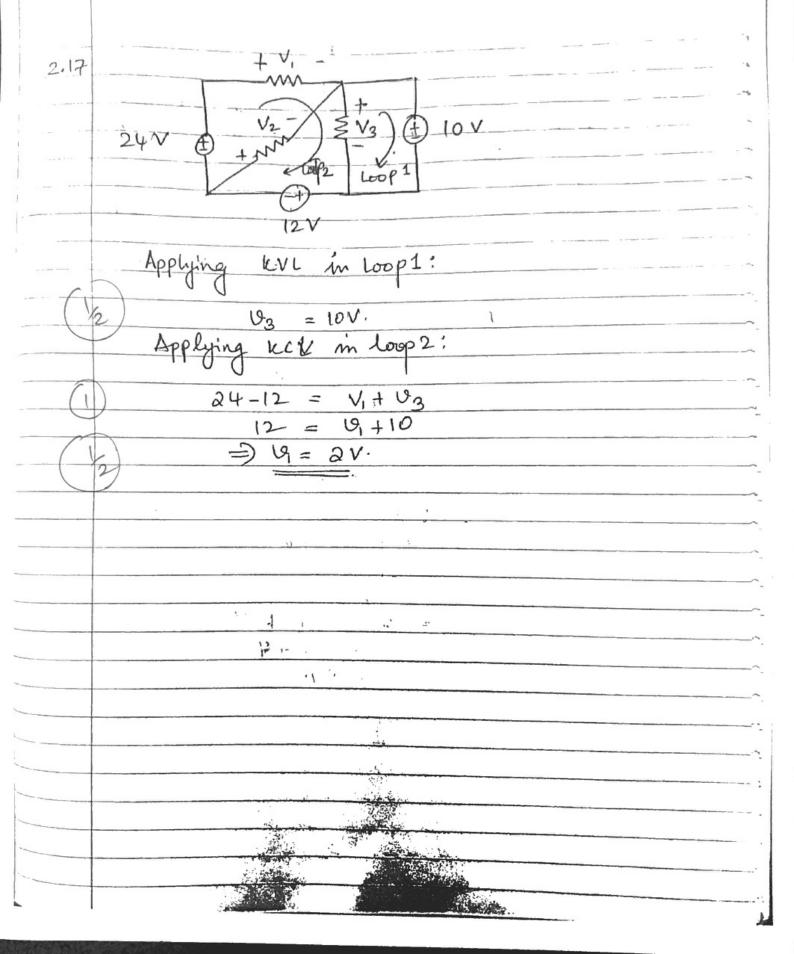
2.41

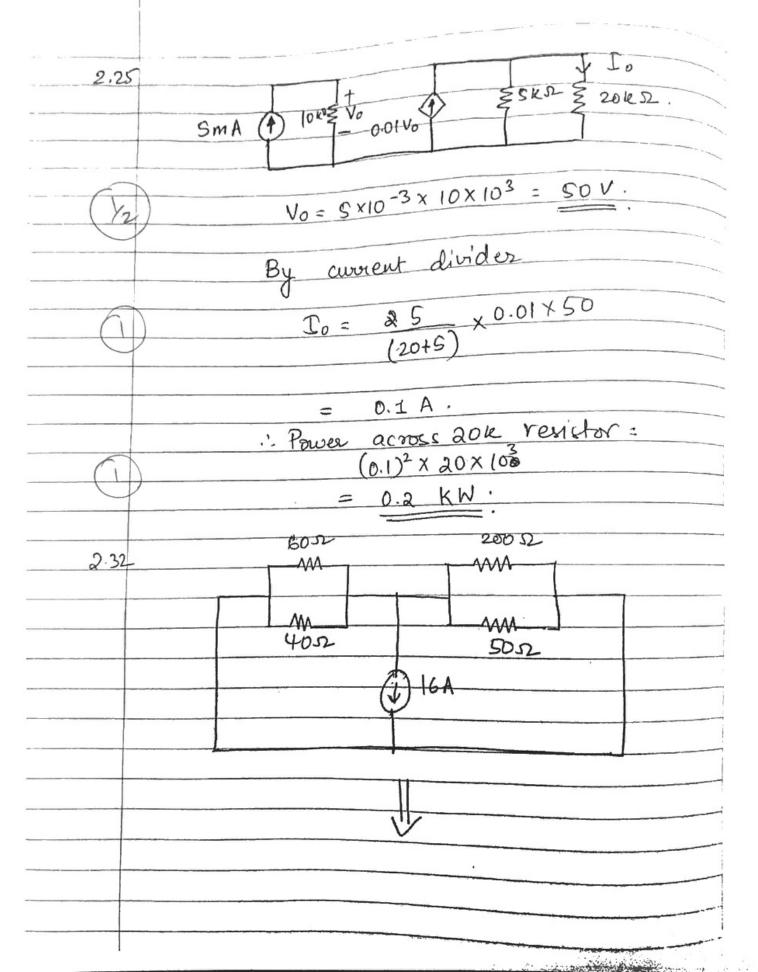
2.44

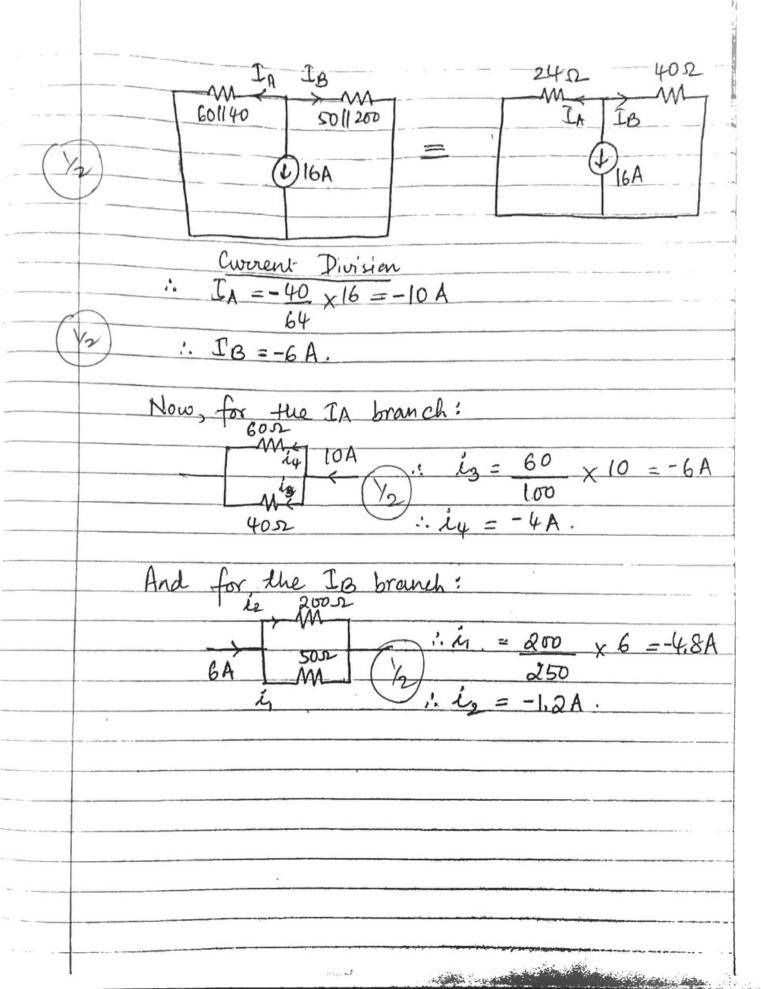
2.59.(a)

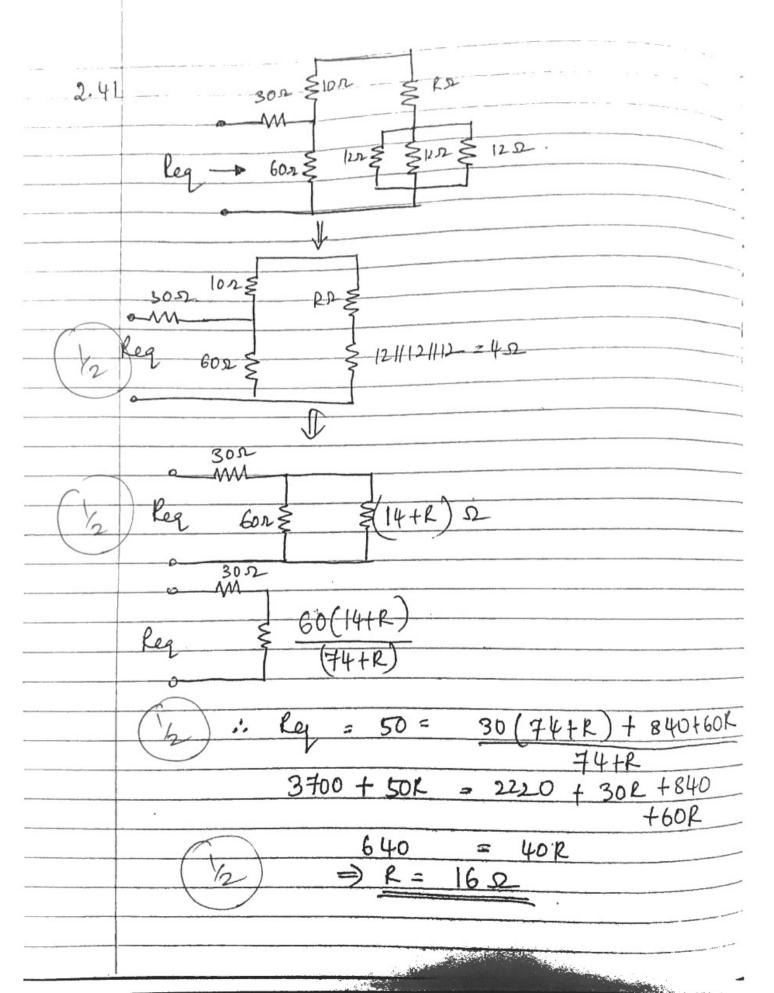
2.59



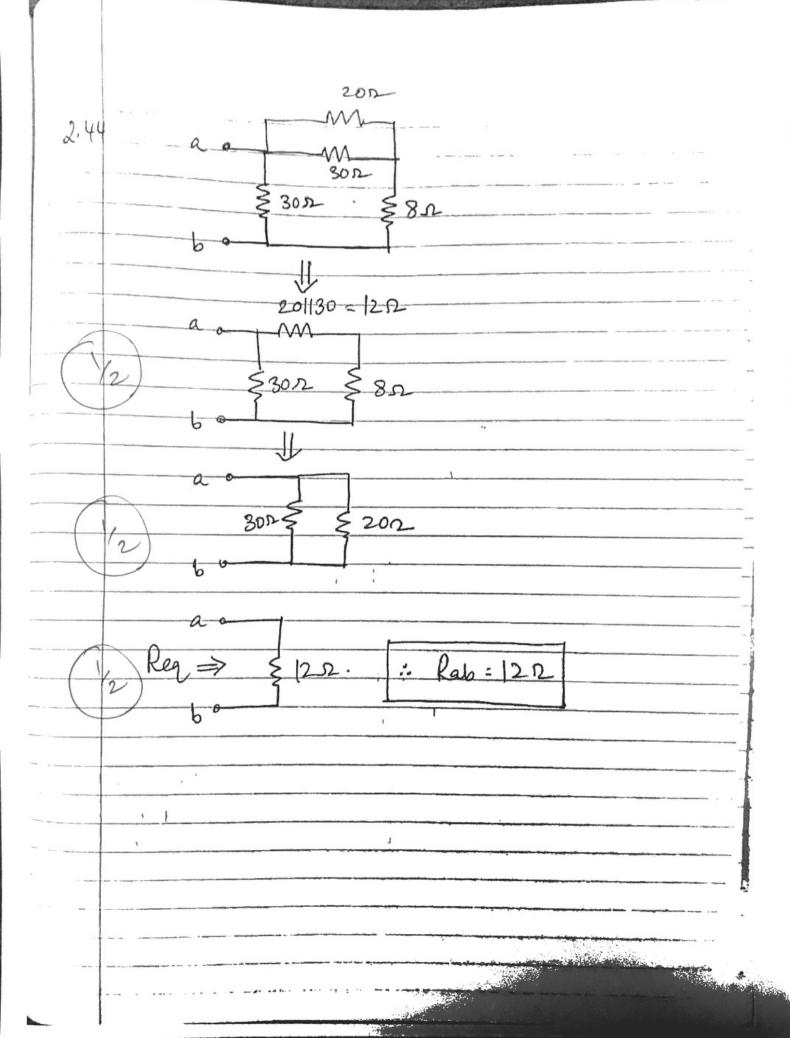


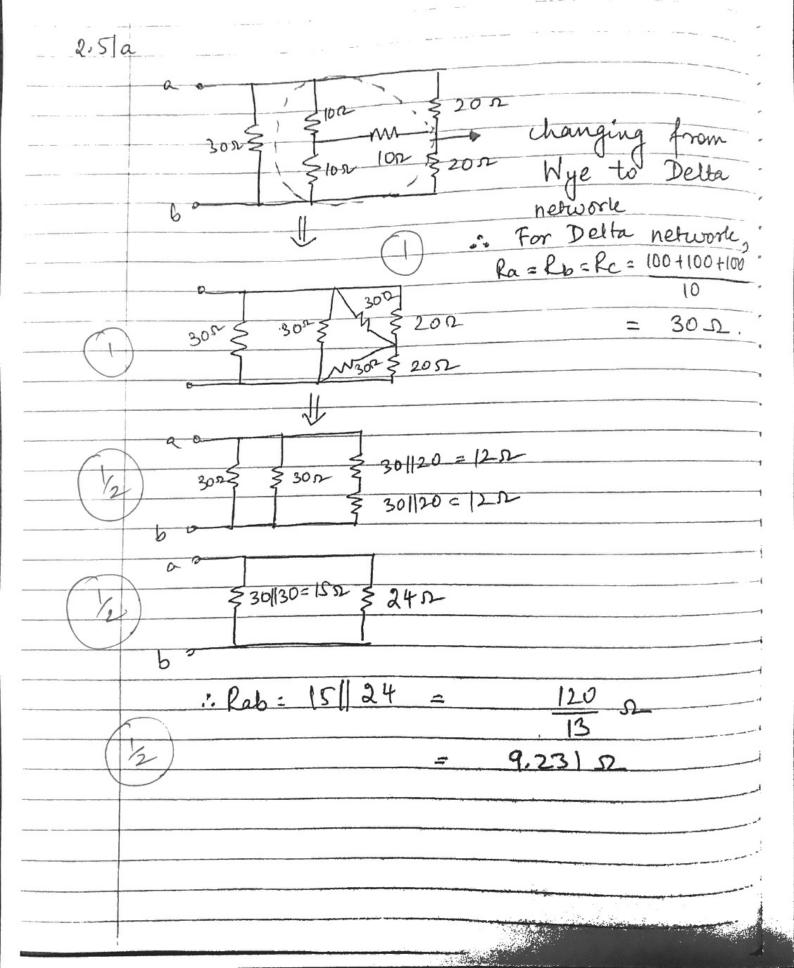


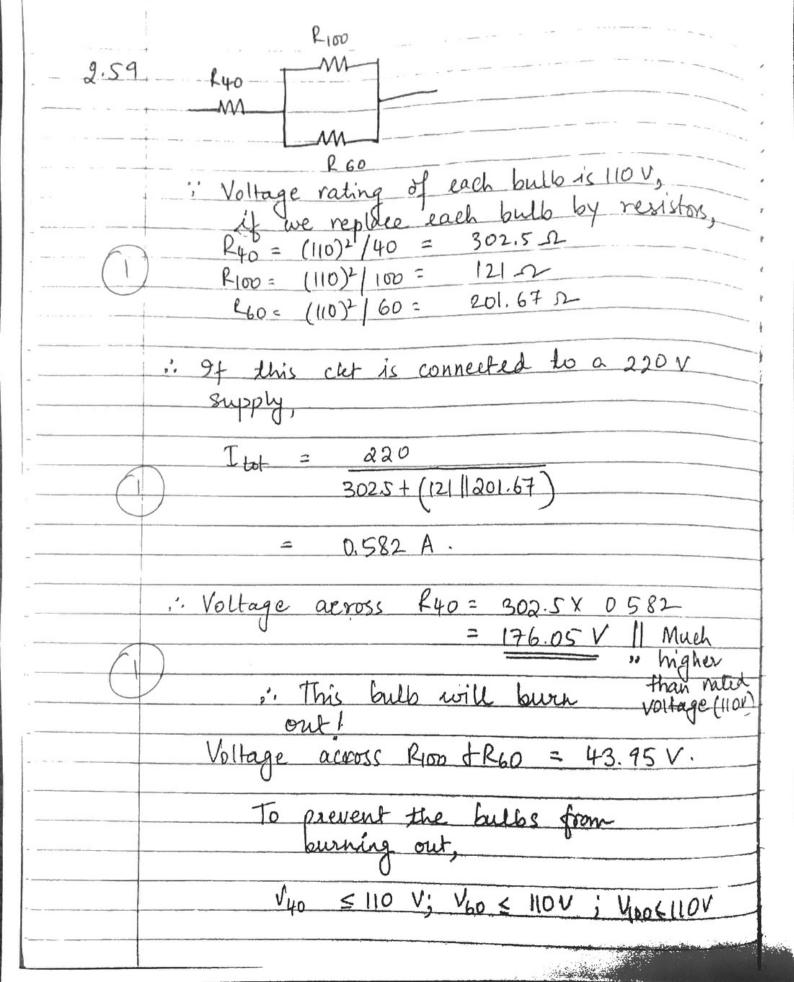




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Now.
Now, V = IR.
for a siven current level.
if RT, VT
So, if we want to use the same series
and parallel combination,
then the turn bulbe with a the highest
then the two bulbs with & the highest resistances should be in 11° with each
other, while the bulb with the lowest-
resistance should be in series with 112
combination, thus yielding!
Rioo m
M P60
(W ₂)
R40.
Checking:
Plot = (302.5 201.67) + 121 = 242.0012.
Checking: $R_{tot} = (302.5 201.67 + 121 = 242.0012.$
V100 = 121 220 ~ 110 21
242.00
V601140 = 110 V · !
: This combination will work.
will work.
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The state of the s