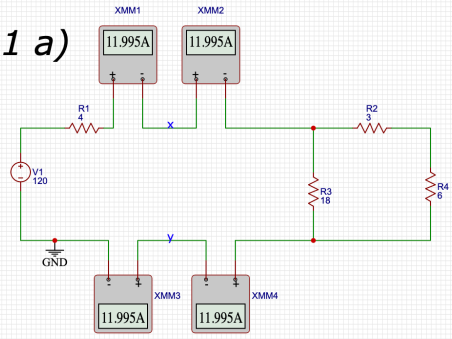
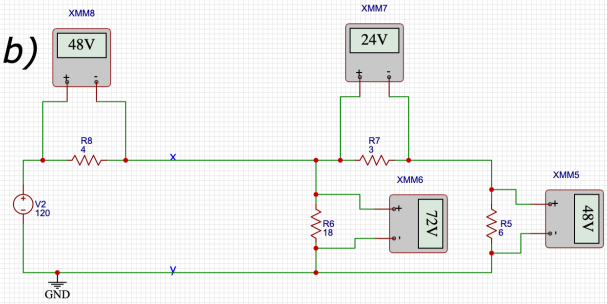
3.1 a)

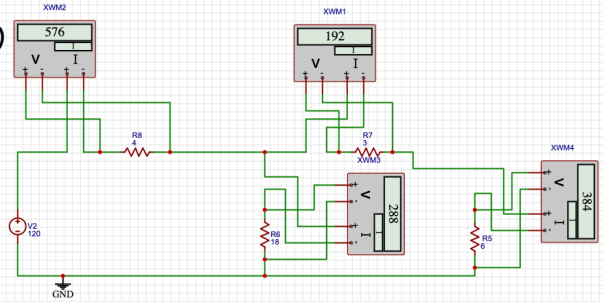


.tran 110m

3.1 b)

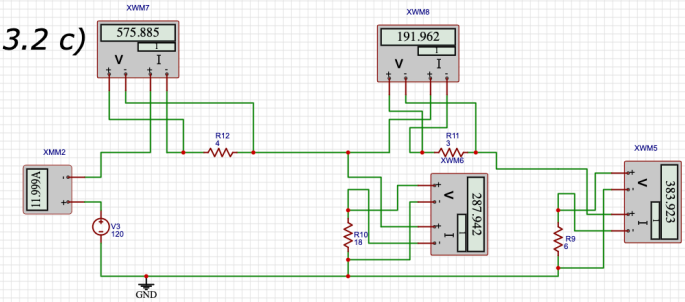


3.2 a)



.tran 110m

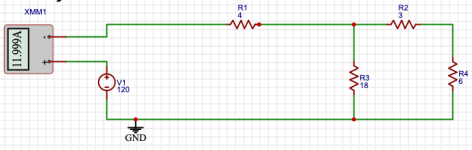
3.2 c)



p = v.i => 12.120 = 1440W

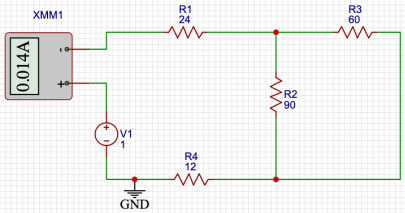
1440 = 576 + 192 + 288 + 384

3.2 b)



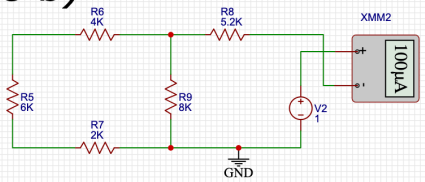
p = v.i => 12.120 = 1440W

3.8 a)



Req = V/I = 1/0.014 = 71.43Ω

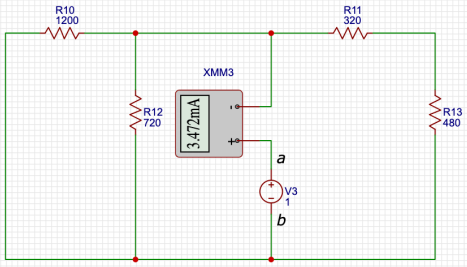
3.8 b)



Req = V/I = 1/0.0001 = 10KΩ

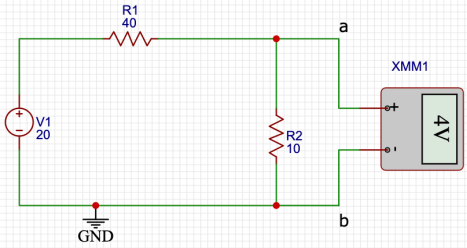
.tran 110m

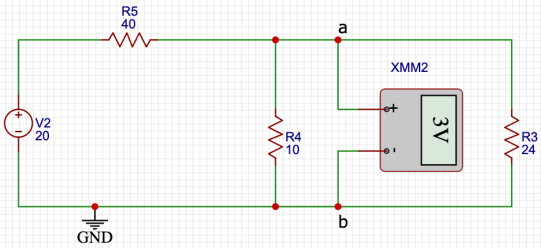
3.8 c)



Req = V/I = 1/0.003472 = 288Ω

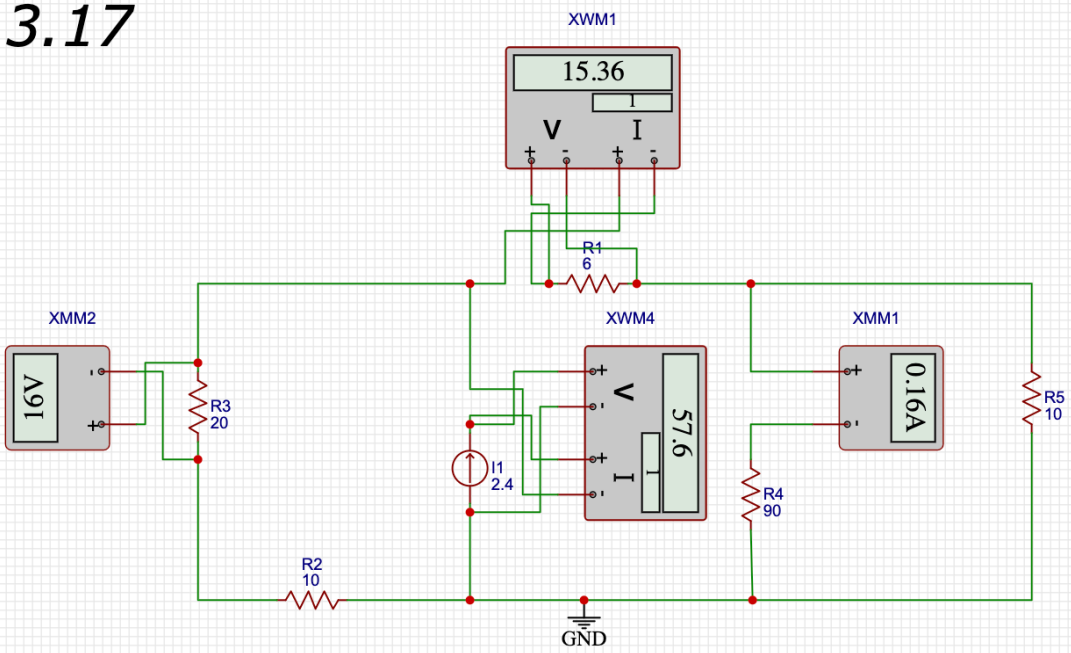
3.13





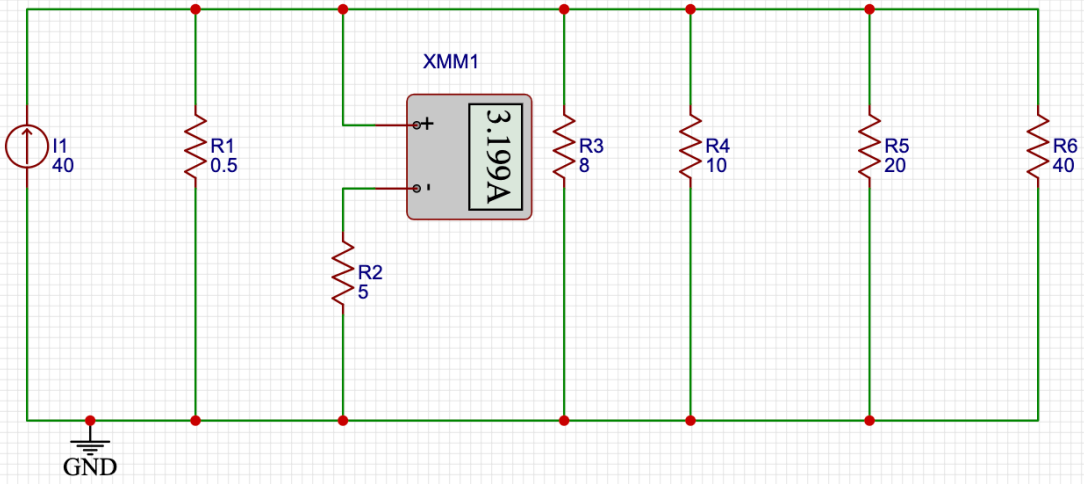
.tran 10m

3.17



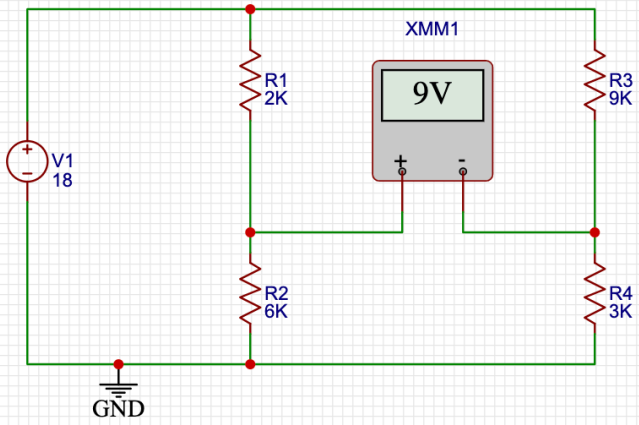
.tran 110m

3.22



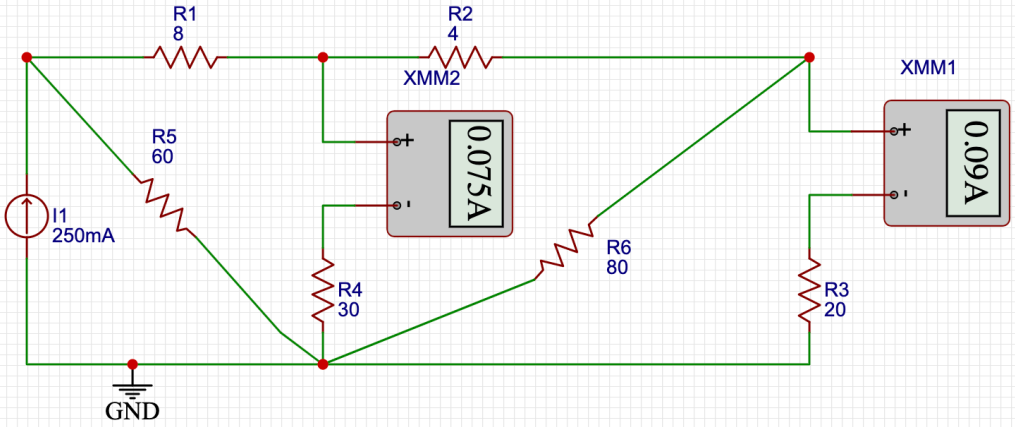
.tran 10m

3.28



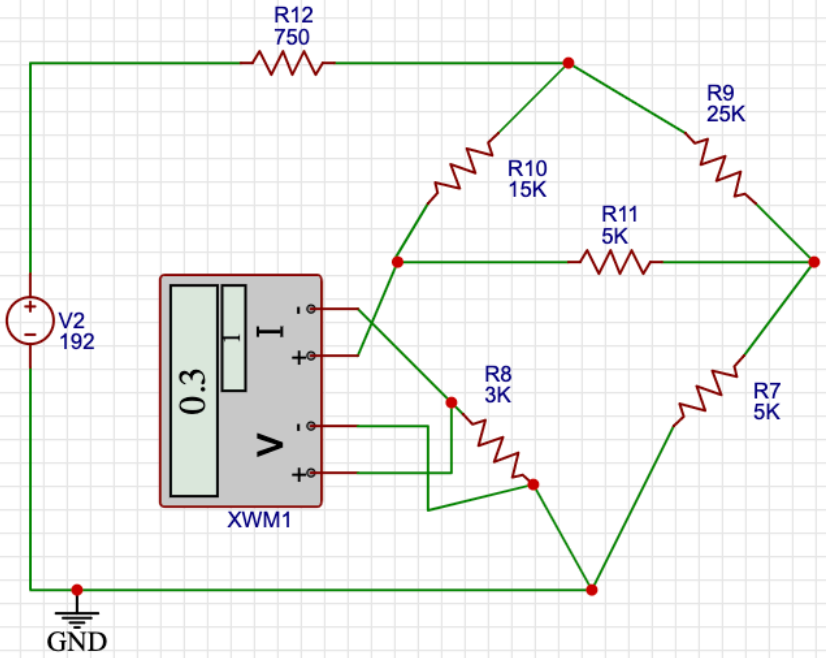
.tran 10m

3.32



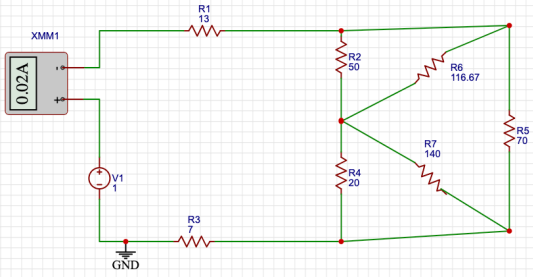
.tran 10m

3.52



.tran 110m

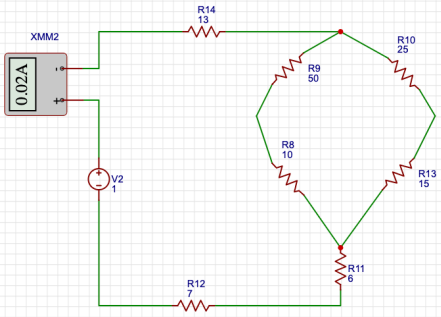
3.58 a)



Req = V/I = 1/0.02 = 50Ω

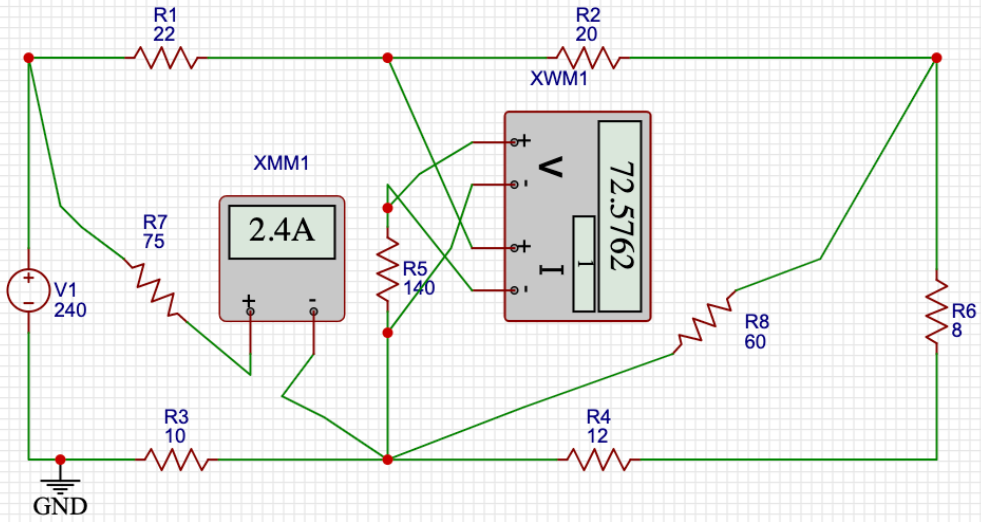
.tran 10m

3.58 b)



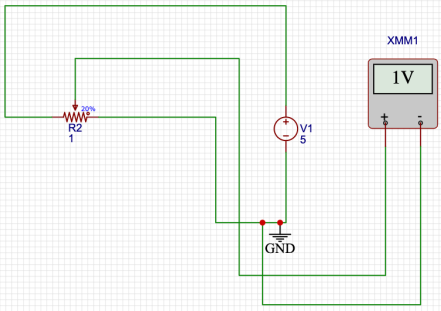
Req = V/I = 1/0.02 = 50Ω

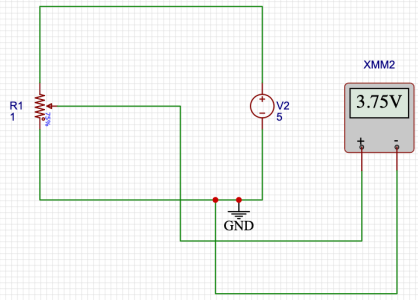
3.62



.tran 110m

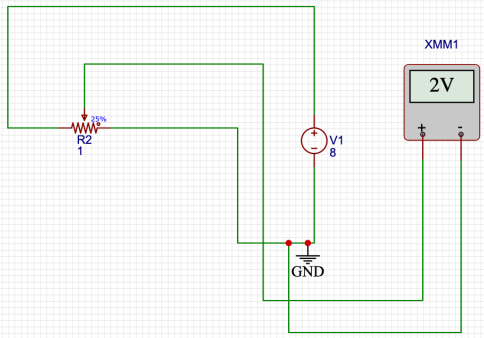
3.73

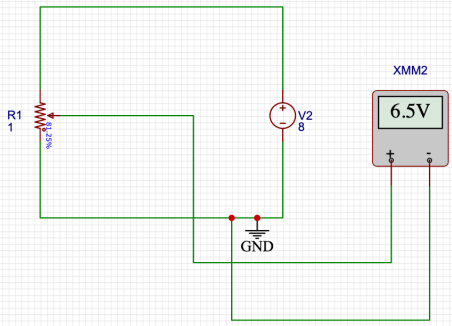




.tran 10m

3.74





.tran 10m