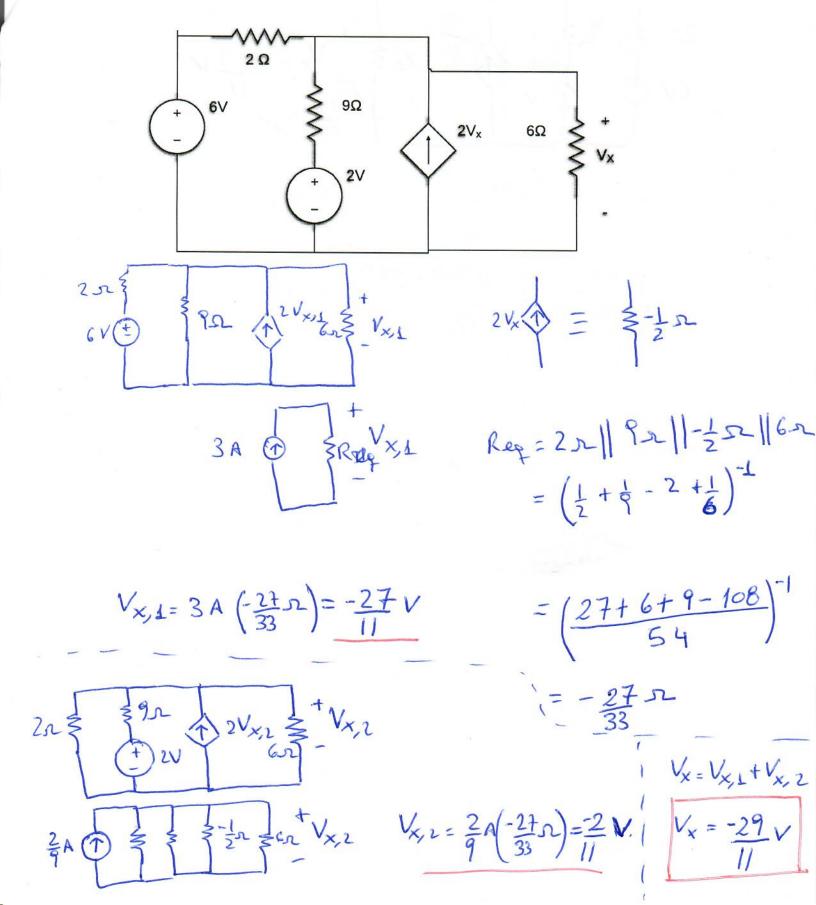
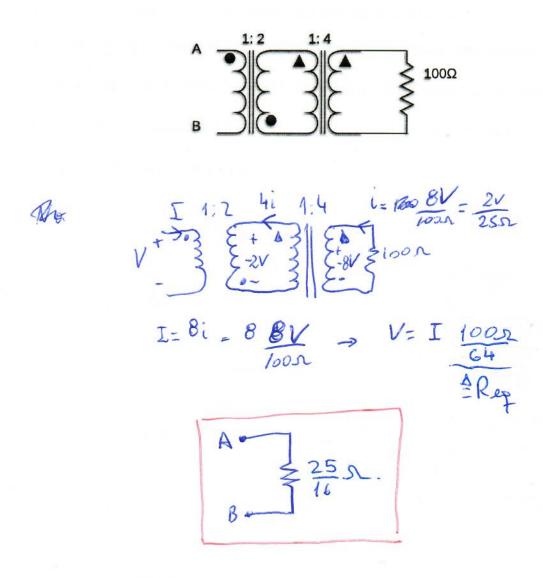
Q1. Find Vx by superposition in the circuit below. (8points)



Q2. Find the Thevenin Equivalent between A and B. (8 points)



Q3. In the circuit below, the switch was moved from position 1 to position 2 at t=0. It had been in position 1 for a very long time before then. (14 points)

- (a) Draw the equivalent circuit at $t=0^-$ and use it to find the initial condition Vc(0+). (4 points)
- (b) Draw the final condition $t \rightarrow \infty$ circuit to find out the final condition Vc(inf). (3 points)
- (c) Use Thevenin equivalent to find out the time constant of the circuit for t>0. (4 points)
- (d) Now find Vc(t) for t > 0. (3 points)

