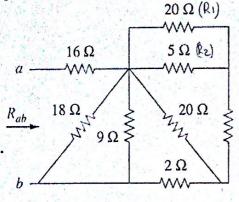
Name:

Student No:

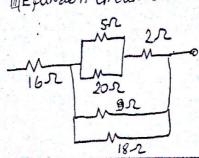
Q-1 Find Rab for the circuit below.



I) RI-Rapre parallel

I) Reg(42) and 122 are in series

1Ω DEquirlent circuit becomes.



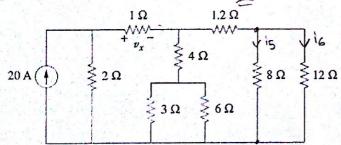
51/1/2012 \$ 42

42 -22 serres => 62

185-92 aren Parallel Req = 18,9 = 65

Two 6 R revs brs are in parallel Reg =  $\frac{6R}{2}$  = 3R

Q-2 In the circuit below, determine Vx and the power absorbed by the 12 Ohm resistor.



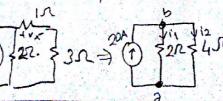
Rab=16+3=192

- [) 81 and 122 are in possible Req = 8.12 = \$4,81
- Ta) 32/162 =) Rev = 3.6 = 22
- IL) 4.8 St one 1.2 st are in server

- Equivalent circuit becomes

  12 192

  20A (1) \$22 \$48 \$652
- []) Two 62's are in parallel



20 = 11 + 12  $Vb_0 = 2 = 11 = 412$   $Vb_0 = 2 = 12 = 12$   $Vb_0 = 2 = 12 = 12$   $Vb_0 = 2 = 12 = 12$ 

Vx=1.R.12 | 12=13+14 Vx=20 V | 13=14 (Some revisione) 18=14= A

 $\begin{array}{c} |4 = 15 + 16 \\ \hline 8.15 = 12.16 \\ \end{array} \begin{array}{c} |4 = 15 + 16 \\ \hline 16 = 3 \\ \hline 16$