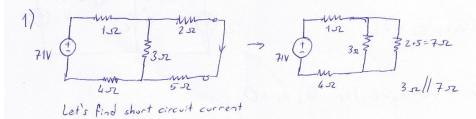
2017-2018 Spring BOEC Solutions of HWG



$$\Rightarrow \frac{10A}{12} \Rightarrow I = \frac{71}{1+2,1+4} = 10A \Rightarrow 3xx = 27x$$

$$4x \Rightarrow 3xx = 27x$$

$$7A \Rightarrow 3xx = 27x$$

$$7A \Rightarrow 3xx = 27x$$

Let's find resistance of the one port:

2)
$$a - I_5 + G_1 e_1 - G_1 e_2 - id = 0$$

 $a = 0$

$$3 - 6_3 e_2 + 6_3 e_3 - I + g e_2 = 0$$

$$3 - 3e_2 + 3e_3 - I + 4e_2 = 0$$

$$\Rightarrow e_3 = V = -1 + \frac{1}{6}I$$