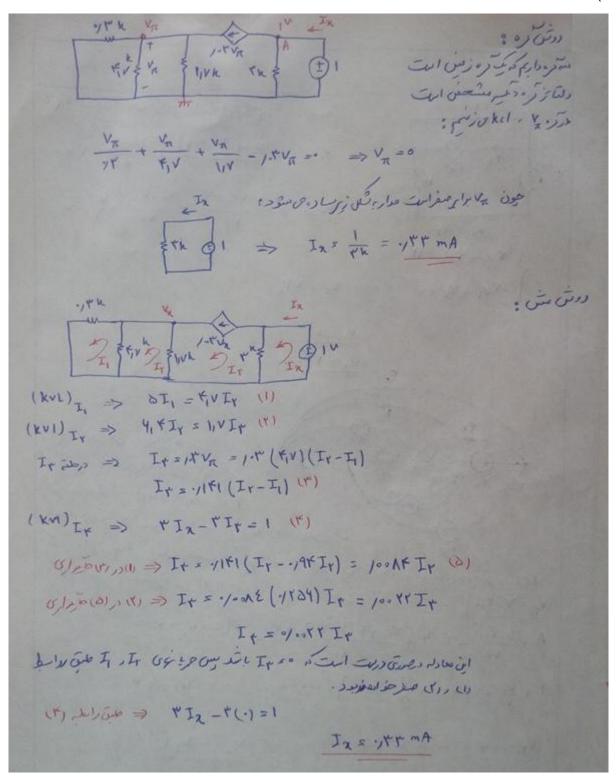
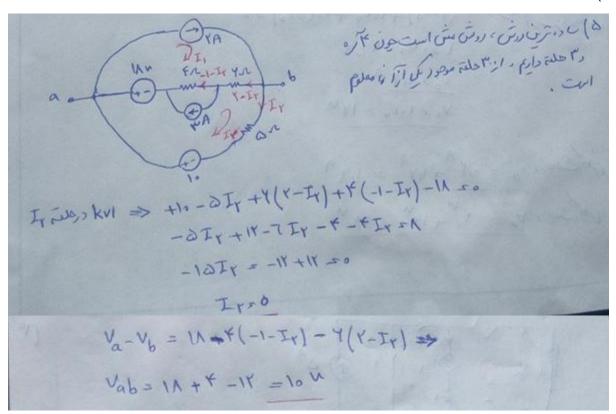
## جواب تمرینات سری دوم

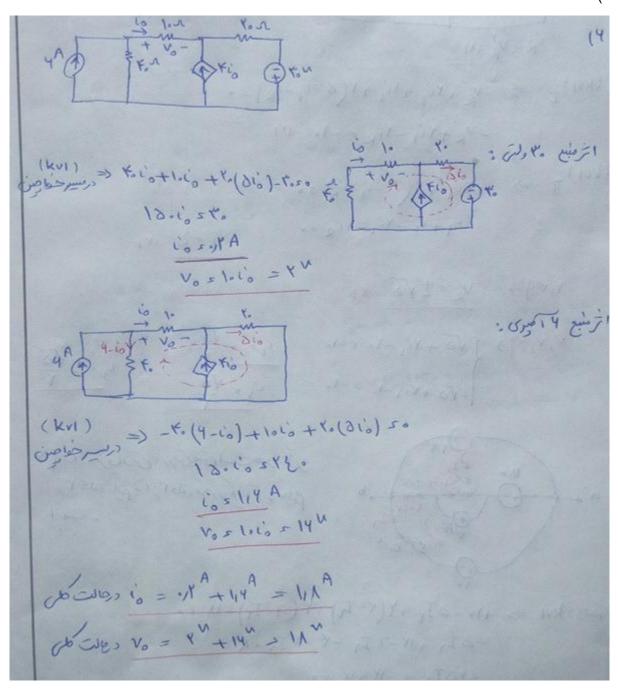
(٢

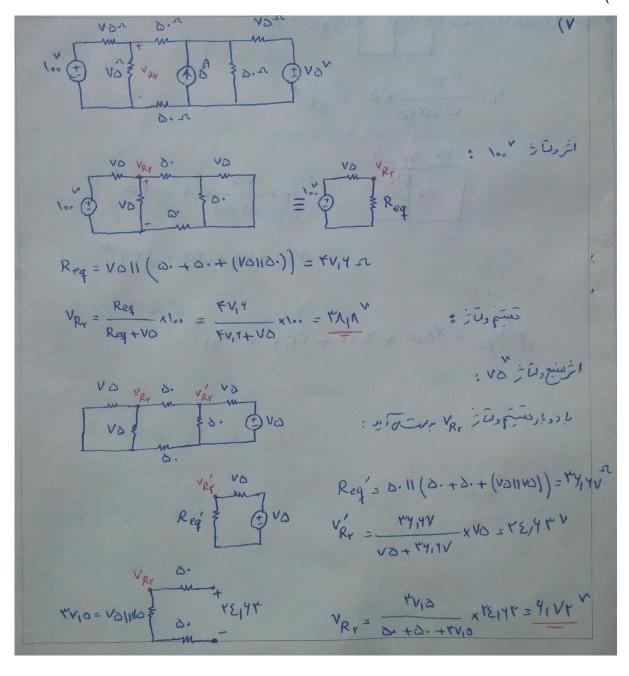
$$|V_{0}| = |V_{0}| = |V_{$$

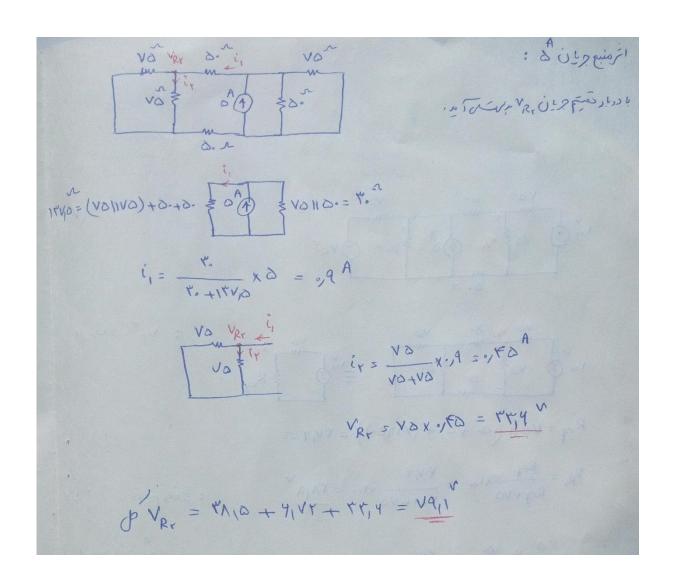
$$\frac{1}{3} \frac{1}{4} \frac{1}$$

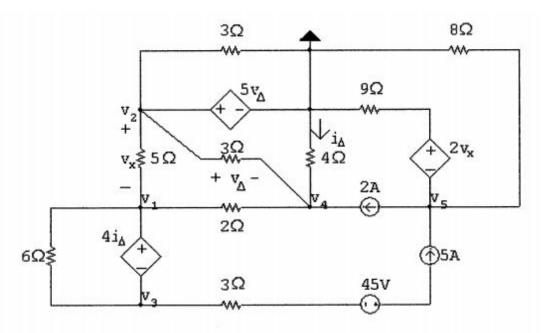












At 
$$v_1: \frac{v_1-v_2}{5} + \frac{v_1-v_4}{2} + 5 = 0$$

At 
$$v_4$$
:  $\frac{v_4 - v_1}{2} + \frac{v_4 - v_2}{3} + \frac{v_4}{4} - 2 = 0$ 

Also, 
$$v_2 = 5v_{\Delta} = 5(v_2 - v_4)$$
  
Solving,  $v_1 = -20$  V;  $v_2 = -15$  V;  $v_4 = -12$  V

At 
$$v_5: \quad 2-5+\frac{v_5}{8}+\frac{v_5+2v_x}{9}=0$$

Also, 
$$v_x = v_2 - v_1 = 5$$
 V Solving,  $v_5 = 8$  V

$$p_{2A} = 2(v_5 - v_4) = 40 \text{ W}$$