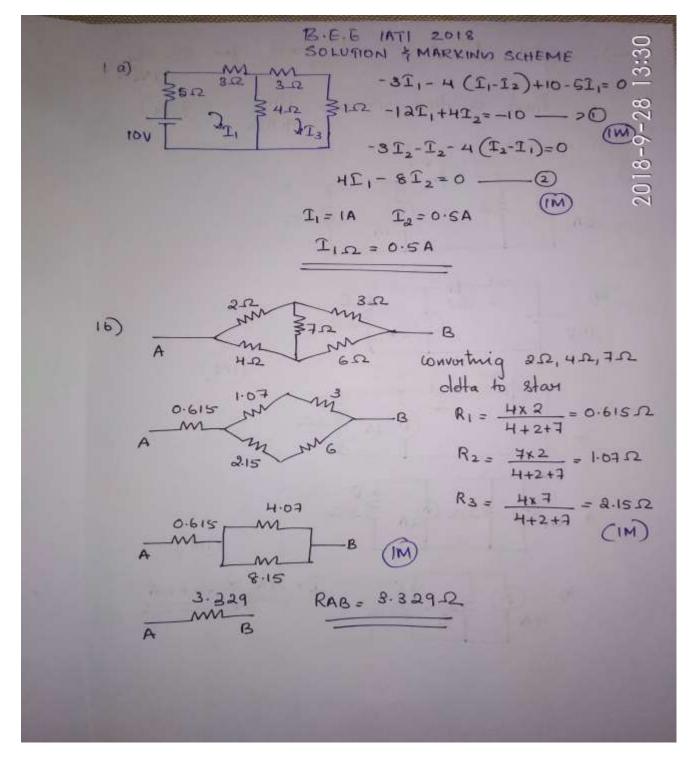
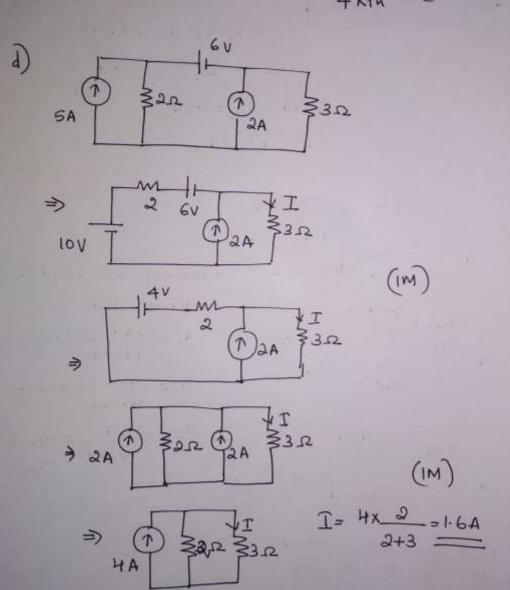
## ST. FRANCIS INSTIYUTE OF TECHNOLOGY BASIC SCIENCE & HUMANITIES DEPARTMENT BASIC ELECTRICAL ENGINEERING

## **IAT 1 SOLUTION**

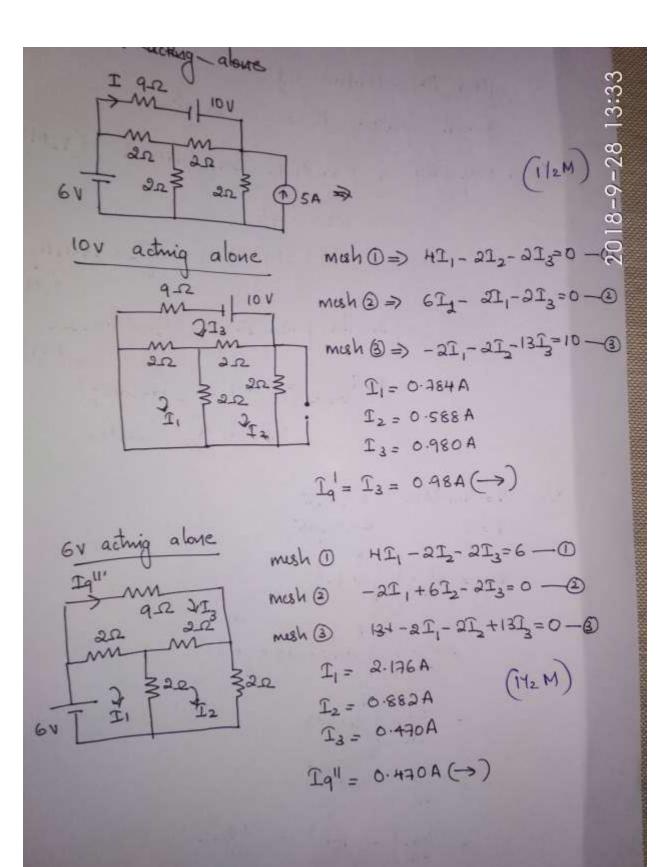


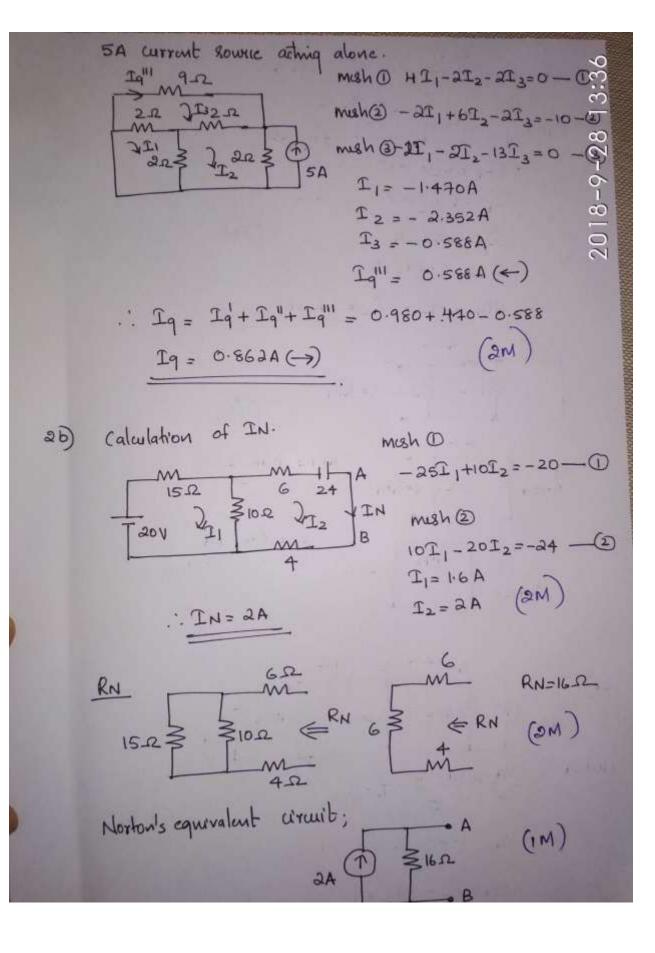
Priox equation Priox =  $\frac{V tu^2}{4 R th}$  (Y2M)

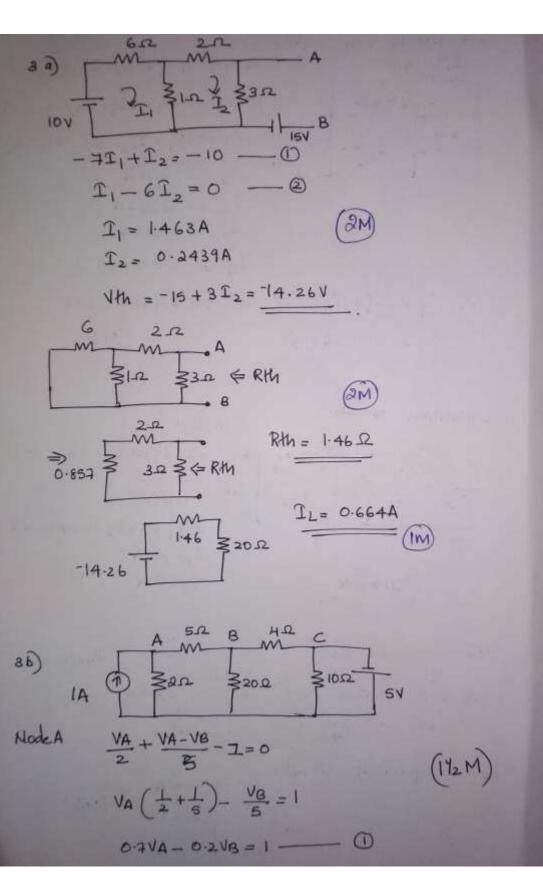


$$V = 0$$

$$V =$$







node B 
$$\frac{VB}{20} + \frac{VB - VC}{4} + \frac{VB - VA}{5} = 0$$
 (172M)  
 $-0.2VA + (\frac{1}{20} + \frac{1}{4} + \frac{1}{5})VB + \frac{5}{4} = 0$ . (IM)  
 $-0.2VA + 0.5VB = -1.25$  (IM)  
 $VA = 0.806V$   
 $VB = -2.177V$  (IM)  
 $VC = -5V$