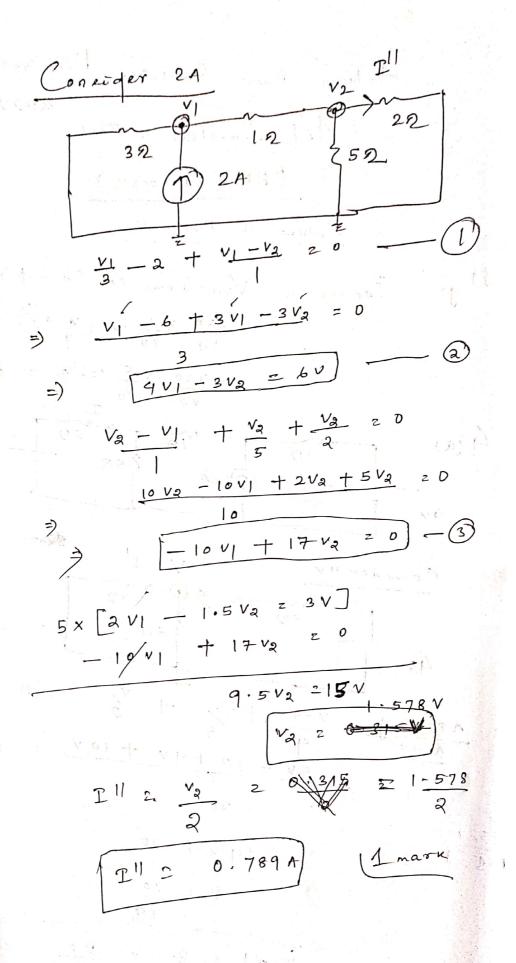
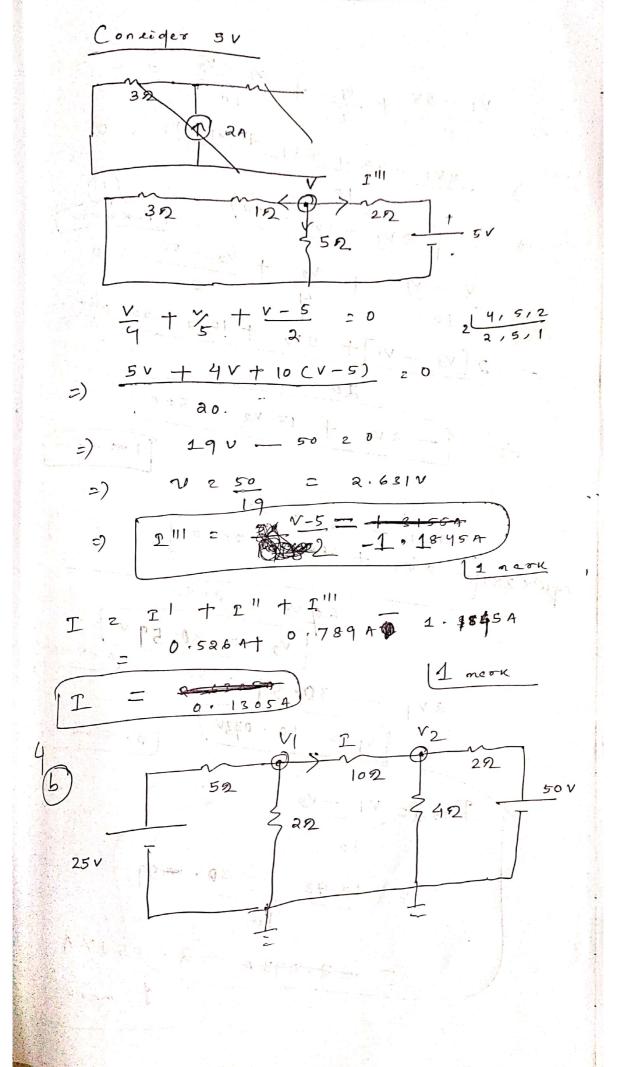
Autums. End Sementer Eneminater, 2022 Let remester B. Tech. BEE (EE 10002) Schene of Evaluation Pactone 2 Vome Irme cos (0-4) = 230 X 5 cos (7 + 7) $\frac{230 \times \frac{5}{12} \cos \pi}{\sqrt{2}} = 0$ $\frac{12}{\sqrt{52}} \frac{1}{\sqrt{52}} = 0$ Consider 4V 40 20 = 0 -5 26 M I 2 1/2 2

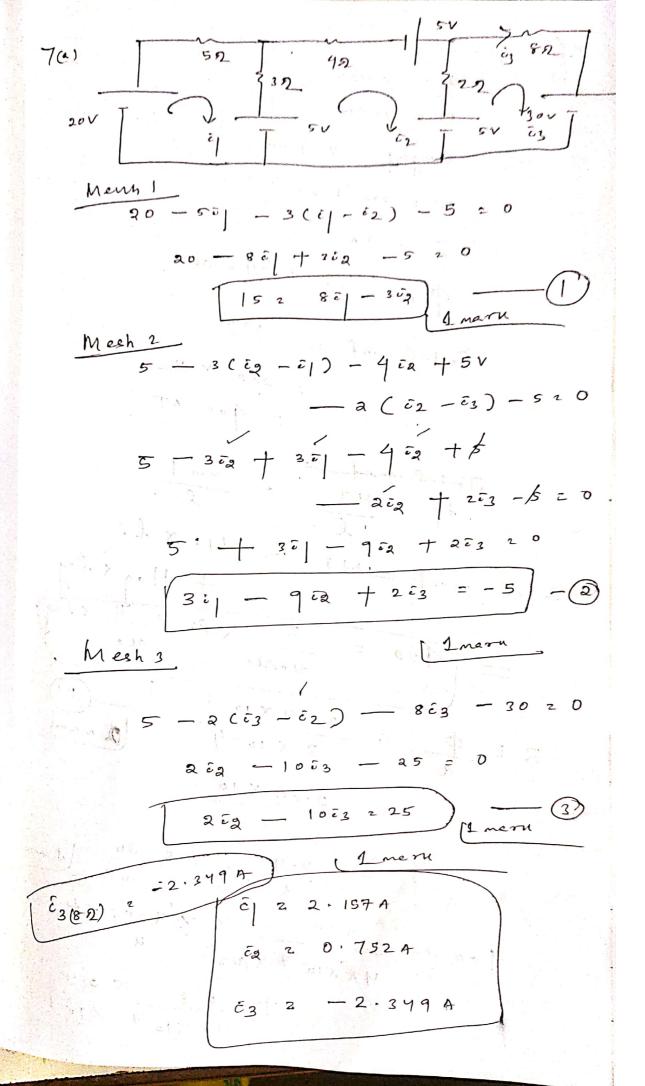


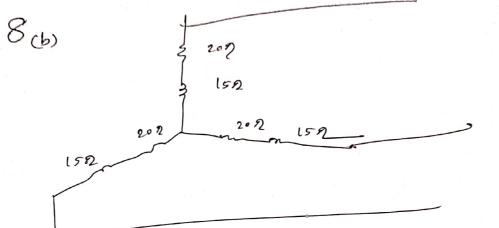


Scanned with CamScanner

(2)
$$20^{\circ}$$
 20° 20°

Scanned with CamScanner





$$V_{L} = 400V$$

$$V_{ph} = \frac{400}{V_{3}}$$

$$V_{ph} = \frac{400}{V_{3}}$$

$$V_{ph} = 400V$$

$$V_{ph} = 40$$

(i)
$$IL = Iph = \frac{Vph}{2ph}$$

$$= \frac{230.94}{25} = 9.22h$$

(iii)
$$Pf = \frac{Rph}{2ph} \cdot \frac{20}{25} = 0.8$$