* Last note on average power *

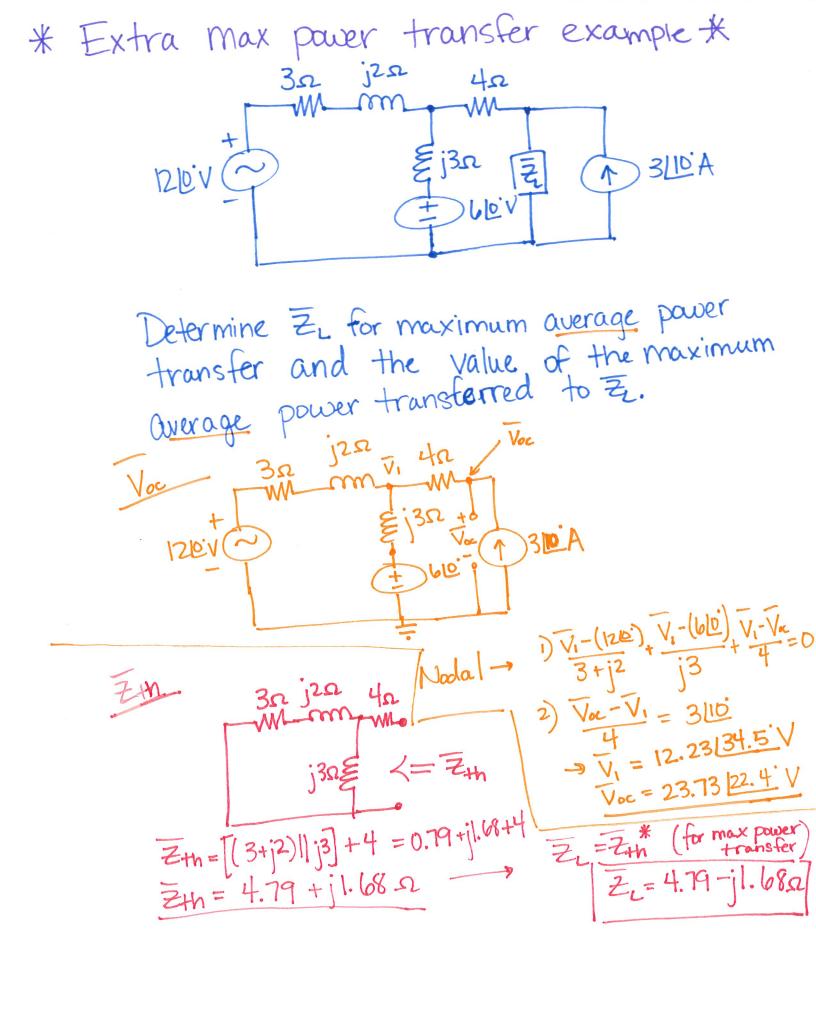
$$Pavg = \frac{1}{2} V_{pk} \cdot I_{pk} \cdot cos(QV - QI)$$

$$= \frac{1}{2} (V_{pk}^2/R) = \frac{1}{2} (I_{pk}^2 \cdot R)$$

For resistors, Ov-OI = 0:

For Lis & C's, Ov-OI = ±90:

So baskally, if you have Peak. Values, you divide by 2; If you have RMS values you do not divide by 2.



$$P_{\text{max}} = P_{\text{aug}} = \frac{1}{2} \text{ V. T. } \cos (\Theta_{\text{V}} - \Theta_{\text{I}})$$

$$= \frac{1}{2} (12.57)(2.47) \cos (3.13 - 22.4)$$

$$P_{\text{aug}} = 14.7 \text{ W}$$

 $P_{\text{max}} = P_{\text{aug}} = \frac{1}{2} \cdot (\mathbb{I}^2 \cdot \mathbb{R})$ = $\frac{1}{2} \cdot (2.47)(4.79)$ $P_{\text{aug}} = |4.7 \text{ W}|$ DR Vac Re

= Voc Re

= 123.73 | 22.4) (4.79

4.79 + 4.79

Prox = Paug = \frac{1}{2} (\frac{\frac{1}{2}}{2} + \frac{1}{2} \frac