The circuit can be redrawn,

Example #1

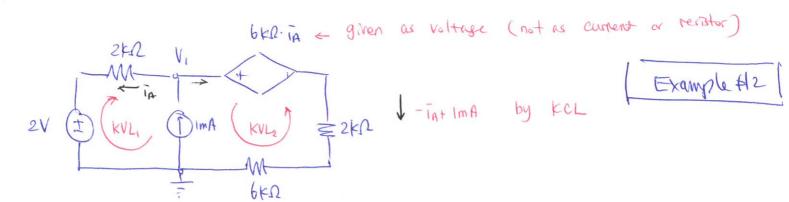
9/15

A of
$$M$$
 $=$ P_{pF} \approx $100k\Omega$ $=$ $9pF$ \approx $100k\Omega$ $=$ $9pF$ \approx $8pF$ \approx $8pF$

multiply jwopF on Jenominator & numerator

Then
$$\frac{100 \text{ kg} \left(\text{ jw40 ns} + 1 - \text{ w².64.10}^{-21} \text{ s²} \right)}{\text{jw880 ns} + 1 - \text{w².64.10}^{-21} \text{ s²}}$$

11



KVL₁:
$$2V + 2k\Omega \cdot \bar{i}_A - V_i = 0$$
 ... 0
 kVL_9 : $(6+2k\Omega)(-\bar{i}_A+imA) + 6k\Omega \cdot \bar{i}_A - V_i = 0$... 0
 $\Rightarrow 8k\Omega(-\bar{i}_A+imA) + 6k\Omega \cdot \bar{i}_A - V_i = 0$

$$2V + 2k\Omega \cdot i_A - V_i - 9k\Omega \left(-i_A + I_M A\right) - 6k\Omega \cdot i_A + V_i = 0$$