Answer

As you have posted multiple questions at once Homework Help policy allows to answer only the first question.

2)

②

3 A

8 Ω

$+ \ V_x \ -$

10 Ω

40V

10 Ω

$2V_x$

$\Downarrow$

8 Ω

30V

$+ \ V_x \ - \quad I$

10 Ω

40V

10 Ω
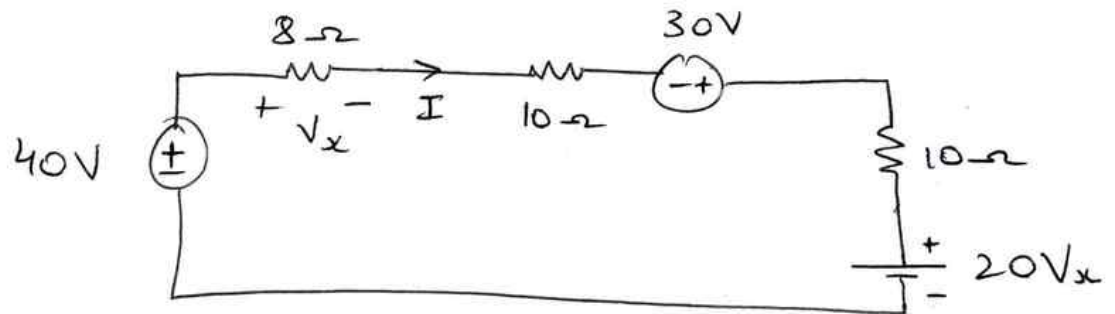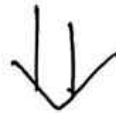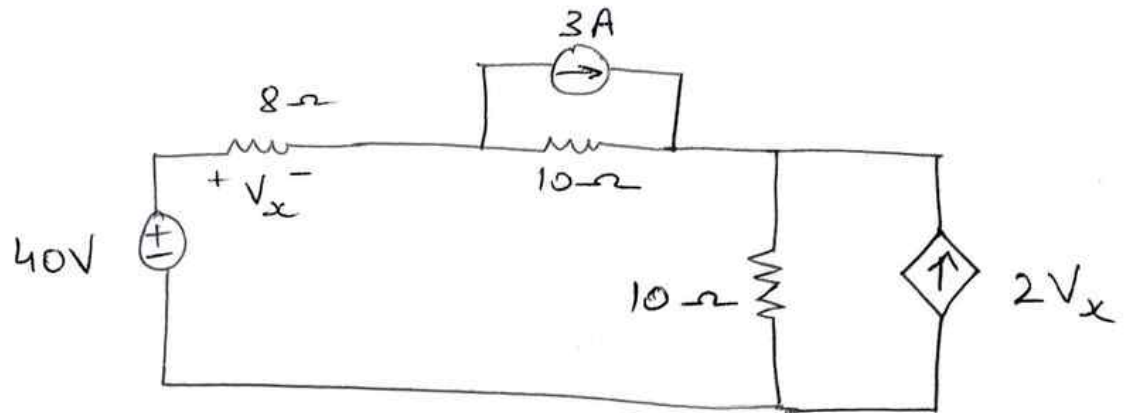
$+ \ 20V_x \ -$

$$\frac{40 - V_x + 30 - 20V_x}{20} = I$$

$\Rightarrow \qquad \dfrac{70 - 21V_x}{20} = \dfrac{V_x}{8}$

$\Rightarrow \qquad \boxed{V_x = 3.11 \ V}$