

$$= \frac{120^{2}}{12k} = \frac{12(12)}{12k}$$
= 1. 2 (W)

$$\frac{1}{2} = \frac{\sqrt{x}}{2} (A) \downarrow$$

$$\frac{\sqrt{x}}{2} + \frac{\sqrt{x}}{4} + \delta = 0$$

$$\frac{\sqrt{x}}{2} = -4$$

$$\frac{29 - V_0}{10}$$

$$2 - \frac{29 - V_0}{10} + 3t - \frac{4}{4} = \frac{V_0 - 4x}{5}$$

$$\Rightarrow 5x + 10 = V_0 - 4x \Rightarrow V_0 = 9x + 10$$

$$= V_0 = 26.1 - 0.9 V_0 + 10 = 1.9 V_0 = 36.1$$

$$= V_0 = \frac{361}{1.9} = 19 (\sqrt{7})$$

 $Va = \frac{(1+\frac{\sqrt{x}}{4})m}{8k^2}$ $Va = \frac{\sqrt{x}}{8k} = \frac{\sqrt{x}}{4}m$ $Va = \frac{\sqrt{x}}{8k^2} = \frac{\sqrt{x}}{4}m$

$$I_{4kr} = \frac{Vx}{4k}m$$

$$= I_{8kq} = \frac{Vx}{4k} - \frac{Vx}{4k} = \frac{Vx}{4k}$$

I22= 14 = 21x-14

Node a=0: (2/x-14) + \frac{\fir}{\fir}}}}}}}{\frac{\fi =>20Vx-140+4Vy=5Vx-10Vy+120

Node 5-0: => 15 Vx + 14 Vy = 260 - D

$$(-V_{8}+V_{8})-0=[a_{2}V_{4}-2(2V_{8}-14)]-0$$

$$=>5V_{8}-1.2V_{4}=28-2$$

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$$35 / x - 1.2 / y = 28 - 0$$

$$1 / x = \frac{260 \text{ A}}{28 - 1.2} = \frac{-704}{-88} = 8 (v)$$

$$3 / x = \frac{15 / 4}{15 - 1.2} = \frac{-850}{-88} = (0. (v))$$

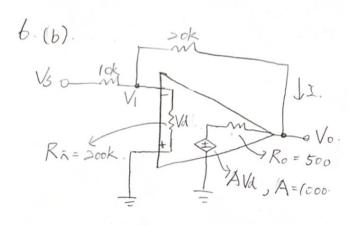
$$1 / x = \frac{15 / 4}{15 - 1.2} = \frac{-850}{-88} = (0. (v))$$

$$\frac{+ V_{14A} = (+V_8 + V_8) - (-V_9 + 12) = V_8 - 12 = -4}{- P_{14A} - 4 \times 14 = -56(\omega)}$$

$$\frac{I_{12V} = \frac{8}{0.5} + \frac{10}{2.5} = 20 \quad P_{12V} = 20 \times 12 = 240(\omega)}{4}$$

Loop
$$I = 2Vx = 3kI_1 + 2kIx + 4m \cdot 2k - 0$$

 $I_1 + 4m + I_2 = 0 \Rightarrow I_1 = -I_2 - 4m - 0$
 $Vx = 1k \times (2m + 4m) = 6 - 8$
 $0 \cdot 9 \cdot 12 = -1kIx - 4$
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$$\frac{V_6 - V_1}{10k} = \frac{V_1}{200k} + \frac{V_1 - V_0}{20k}$$

$$\Rightarrow 20V_5 = 3|V_1 - 10V_0 - 0$$

$$\frac{V_1 - V_0}{20k} = \frac{V_0 - AV_0}{500} = \frac{V_0 + 1000V_1}{500}$$

$$\Rightarrow V_1 - V_0 = 40(V_0 + (000V_1))$$

$$= \frac{41}{3999} \sqrt{0} \approx -\frac{40}{40000} \sqrt{0} = \frac{-\sqrt{0}}{1000} - 0$$

$$= \frac{40}{3999} \sqrt{0} \approx -\frac{40}{40000} \sqrt{0} = \frac{-\sqrt{0}}{1000} - 0$$

$$= \frac{40}{40000} \sqrt{0} = \frac{-\sqrt{0}}{1000} - 0$$

$$= \frac{\sqrt{0}}{\sqrt{0}} = \frac{20}{10.03} = -\frac{1}{0} = \frac{914}{40000}$$

$$\frac{5 \cdot 0}{2k} = \frac{\sqrt{a-5}}{8k} \Rightarrow \sqrt{a} = 25$$

$$\frac{5 \cdot \sqrt{o}}{6} + \frac{25 \cdot \sqrt{o}}{2k} = \frac{\sqrt{o}}{1k}$$

$$\Rightarrow 5 \cdot \sqrt{o} + 15 - 3\sqrt{o} = 6\sqrt{o}$$

$$\Rightarrow \sqrt{o} = 8 (v)$$