

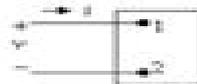
Remember in the problem statement, $\alpha = 0.03679$. Using this value for α ,

$$i = \frac{1}{0.03679} e^{-1} \cong 10 \text{ A.}$$

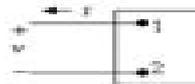
AP 1.5 Start by drawing a picture of the circuit described in the problem statement:



Also sketch the four figures from Fig. 1.6:



(a)



(b)



(c)



(d)

[a] Now we have to match the voltage and current shown in the first figure with the polarities shown in Fig. 1.6. Remember that 4A of current entering Terminal 2 is the same as 4A of current leaving Terminal 1. We get

$$(a) \quad v = -20 \text{ V}, \quad i = -4 \text{ A}; \quad (b) \quad v = -20 \text{ V}, \quad i = 4 \text{ A};$$

$$(c) \quad v = 20 \text{ V}, \quad i = -4 \text{ A}; \quad (d) \quad v = 20 \text{ V}, \quad i = 4 \text{ A}.$$

[b] Using the reference system in Fig. 1.6(a) and the passive sign convention, $p = vi = (-20)(-4) = 80 \text{ W}$.

[c] Since the power is greater than 0, the box is absorbing power.

AP 1.6 [a] Applying the passive sign convention to the power equation using the voltage and current polarities shown in Fig. 1.5, $p = vi$. To find the time at which the power is maximum, find the first derivative of the power with respect to time, set the resulting expression equal to zero, and solve for time:

$$p = (80,000te^{-500t})(15te^{-500t}) = 120 \times 10^4 t^2 e^{-1000t};$$

$$\frac{dp}{dt} = 240 \times 10^4 te^{-1000t} - 120 \times 10^7 t^2 e^{-1000t} = 0.$$

Therefore,

$$240 \times 10^4 - 120 \times 10^7 t = 0.$$

Electric Circuits Nilsson 9th Solution Manual

J Dewey



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