



## Exercise 1

### Chapter 11

#### Step 1

1 of 5

Given the circuit of Fig.11.23, we get

a) For the circuit at  $t=0$ ,  $t = 1s$  and  $t = 2s$  the power in the  $1\Omega$  resistor can be calculated as:

$$v_s = 9V \quad (1)$$

$$P = \frac{\left(\frac{9 \cdot 1}{5}\right)^2}{1} \quad (2)$$
$$= 3,24W$$

b) Due to  $v_s = 9 \sin(2t)$  V, applying the voltage divider in the  $1\Omega$  resistor we get:

$$v_{1\Omega} = \frac{9 \sin(2t) \cdot 1}{5} \quad (3)$$

$$= 1,8 \sin 2t \text{ V} \quad (4)$$

At  $t = 0$

$$v_{(1\Omega)} = 1,8 \sin(0) \quad (5)$$
$$= 0V$$

$$P_{(1\Omega)} = \frac{(v_{(1\Omega)})^2}{R} \quad (6)$$

$$= 0 \text{ W} \quad (7)$$

$$\boxed{P_{1\Omega} = 0W} \quad (8)$$

At  $t = 1s$

$$v_{(1\Omega)} = 1,8 \sin(2) \quad (9)$$
$$= 0,0628 \text{ V}$$

$$P_{1\Omega} = \frac{(v_1x)^2}{R} \quad (10)$$

$$= \frac{(0,0628)^2}{1} \quad (11)$$

$$= 0,00395 \text{ W} \quad (12)$$

$$\boxed{P = 3,95mW} \quad (13)$$

# Manual Solution Of Mylabsplus

**Bernard Sklar**



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