

**Step 2**

2 of 5

At $t = 2\pi$

$$\begin{aligned}v_{1\Omega} &= 1.8 \sin(4) \\ &= 0.1256\text{V}\end{aligned}\quad (1)$$

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

$$P_{1\Omega} = \frac{(0.1256)^2}{1} \quad (3)$$

$$P_{1\Omega} = 0.01577\text{w} \quad (4)$$

$$\boxed{P_{1\Omega} = 15.77\text{mW}} \quad (5)$$

Step 3

3 of 5

c) $v_s = 9 \sin(2t + 13^\circ)$ V

$$v_{1\Omega} = \frac{[9 \sin(2t + 13^\circ)] \cdot 1}{5} \quad (1)$$

$$= 1.8 \sin(2t + 13^\circ) \quad (2)$$

At $t = 0$

$$\begin{aligned}v_{1\Omega} &= 1.8 \sin(13^\circ) \\ &= 0.4049 \text{ V}\end{aligned}\quad (3)$$

$$P = \frac{(v_{1\Omega})^2}{1} \quad (4)$$

$$= \frac{0.4049^2}{1} \quad (5)$$

$$= 0.164\text{W} \quad (6)$$

$$\boxed{P = 0.164\text{W}} \quad (7)$$

At $t = 1\text{s}$

$$\begin{aligned}v_{1\Omega} &= 1.8 \sin(2 + 13) \\ &= 0.4659\end{aligned}\quad (8)$$

$$P = \frac{(v_{1\Omega})^2}{1} \quad (9)$$

$$= \frac{0.4659^2}{1} \quad (10)$$

$$= 0.217\text{W} \quad (11)$$

$$\boxed{P = 0.217\text{W}} \quad (12)$$

At $t = 2\text{s}$

$$\begin{aligned}v_{1\Omega} &= 1.8 \sin(4 + 13) \\ &= 0.5263\text{V}\end{aligned}\quad (13)$$

$$P = \frac{(v_{1\Omega})^2}{1} \quad (14)$$

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Judd E. Hollander



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