

CHAPTER 2 SOLUTIONS

2/21/10

2-1) Square waves and triangular waves for voltage and current are two examples.

2-2) a) $p(t) = v(t) i(t) = \frac{v^2(t)}{R} = \frac{[170 \sin(377t)]^2}{10} = 2890 \sin^2 377t \text{ W}.$
 b) peak power = 2890 W.
 c) $P = 2890/2 = 1445 \text{ W}.$

2-3) $v(t) = 5 \sin 2\pi t \text{ V}.$
 a) $4 \sin 2\pi t \text{ A}.$; $p(t) = v(t)i(t) = 20 \sin^2 2\pi t \text{ W}.$; $P = 10 \text{ W}.$
 b) $3 \sin 4\pi t \text{ A}.$; $p(t) = 15 \sin(2\pi t) \sin(4\pi t) \text{ W}.$; $P = 0$

2-4) a)
$$p(t) = v(t) i(t) = \begin{cases} 0 & 0 < t < 50 \text{ ms} \\ 40 & 50 \text{ ms} < t < 70 \text{ ms} \\ 0 & 70 \text{ ms} < t < 100 \text{ ms} \end{cases}$$

 b)
$$P = \frac{1}{T} \int_0^T v(t) i(t) dt = \frac{1}{100 \text{ ms}} \int_{50 \text{ ms}}^{70 \text{ ms}} 40 dt = 8.0 \text{ W}.$$

 c)
$$W = \int_0^T p(t) dt = \int_{50 \text{ ms}}^{70 \text{ ms}} 40 dt = 800 \text{ mJ}; \text{ or } W = PT = (8 \text{ W})(100 \text{ ms}) = 800 \text{ mJ}.$$

2-5) a)
$$p(t) = v(t) i(t) = \begin{cases} 70 \text{ W}, & 0 < t < 6 \text{ ms} \\ -50 \text{ W}, & 6 \text{ ms} < t < 10 \text{ ms} \\ 40 \text{ W}, & 10 \text{ ms} < t < 14 \text{ ms} \\ 0 & 14 \text{ ms} < t < 20 \text{ ms} \end{cases}$$

 b)
$$P = \frac{1}{T} \int_0^T p(t) dt = \frac{1}{20 \text{ ms}} \left[\int_0^{6 \text{ ms}} 70 dt + \int_{6 \text{ ms}}^{10 \text{ ms}} (-50) dt + \int_{10 \text{ ms}}^{14 \text{ ms}} 40 dt \right] = 19 \text{ W}.$$

 c)

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