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## CHAPTER 6

### Exercises

**E6.1** (a) The frequency of  $v_{in}(t) = 2\cos(2\pi \cdot 2000t)$  is 2000 Hz. For this frequency  $H(f) = 2\angle 60^\circ$ . Thus,  $V_{out} = H(f)V_{in} = 2\angle 60^\circ \times 2\angle 0^\circ = 4\angle 60^\circ$  and we have  $v_{out}(t) = 4\cos(2\pi \cdot 2000t + 60^\circ)$ .

(b) The frequency of  $v_{in}(t) = \cos(2\pi \cdot 3000t - 20^\circ)$  is 3000 Hz. For this frequency  $H(f) = 0$ . Thus,  $V_{out} = H(f)V_{in} = 0 \times 2\angle 0^\circ = 0$  and we have  $v_{out}(t) = 0$ .

**E6.2** The input signal  $v(t) = 2\cos(2\pi \cdot 500t + 20^\circ) + 3\cos(2\pi \cdot 1500t)$  has two components with frequencies of 500 Hz and 1500 Hz. For the 500-Hz component we have:

$$V_{out,1} = H(500)V_{in} = 3.5\angle 15^\circ \times 2\angle 20^\circ = 7\angle 35^\circ$$

$$v_{out,1}(t) = 7\cos(2\pi \cdot 500t + 35^\circ)$$

For the 1500-Hz component:

$$V_{out,2} = H(1500)V_{in} = 2.5\angle 45^\circ \times 3\angle 0^\circ = 7.5\angle 45^\circ$$

$$v_{out,2}(t) = 7.5\cos(2\pi \cdot 1500t + 45^\circ)$$

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