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so many fake sites. this is the first one which worked! Many thanks

## CHAPTER 1

1.1 to 1.41 - part of text

1.42 (a) Periodic:  
Fundamental period = 0.5s

(b) Nonperiodic

(c) Periodic:  
Fundamental period = 3s

(d) Periodic:  
Fundamental period = 2 samples

(e) Nonperiodic

(f) Periodic:  
Fundamental period = 10 samples

(g) Nonperiodic

(h) Nonperiodic

(i) Periodic:  
Fundamental period = 1 sample

$$\begin{aligned} 1.43 \quad y(t) &= \left( 5 \cos \left( 200t + \frac{\pi}{4} \right) \right)^2 \\ &= 9 \cos^2 \left( 200t + \frac{\pi}{4} \right) \\ &= \frac{9}{2} \left[ \cos \left( 400t + \frac{\pi}{2} \right) + 1 \right] \end{aligned}$$

(a) DC component =  $\frac{9}{2}$

(b) Sinusoidal component =  $\frac{9}{2} \cos \left( 400t + \frac{\pi}{2} \right)$   
Amplitude =  $\frac{9}{2}$

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