

**Problem 1.26** Determine the period of each of the following waveforms:

(a)  $x_1(t) = \sin 2t$

(b)  $x_2(t) = \cos\left(\frac{\pi}{3}t\right)$

(c)  $x_3(t) = \cos^2\left(\frac{\pi}{3}t\right)$

(d)  $x_4(t) = \cos(4\pi t + 60^\circ) - \sin(4\pi t + 60^\circ)$

(e)  $x_5(t) = \cos\left(\frac{4}{\pi}t + 30^\circ\right) - \sin(4\pi t + 30^\circ)$

**Solution:** The period of  $A \cos(\omega t + \theta)$  is  $\frac{2\pi}{\omega}$  if  $\omega \neq 0$ .

(a) The period is  $\frac{2\pi}{2} = \boxed{\pi}$ .

(b) The period is  $\frac{2\pi}{\pi/3} = \boxed{6}$ .

(c)  $\cos^2\left(\frac{\pi}{3}t\right) = \frac{1}{2} + \frac{1}{2}\cos\left(2\frac{\pi}{3}t\right)$ . The period is  $\frac{2\pi}{2\pi/3} = \boxed{3}$ .

(d)  $\cos(4\pi t + 60^\circ) - \sin(4\pi t + 60^\circ) = \sqrt{2}\cos(4\pi t + 105^\circ)$ . The period is

$$\frac{2\pi}{4\pi} = \boxed{\frac{1}{2}}$$

(e) The period of  $\cos\left(\frac{4}{\pi}t + 30^\circ\right)$  is  $\frac{2\pi}{4/\pi} = \frac{\pi^2}{2}$ . This repeats every

$$\left\{\frac{\pi^2}{2}, 2\frac{\pi^2}{2}, 3\frac{\pi^2}{2}, \dots\right\}.$$

The period of  $-\sin(4\pi t + 30^\circ)$  is  $\frac{2\pi}{4\pi} = \frac{1}{2}$ . This repeats every  $\{\frac{1}{2}, 2(\frac{1}{2}), 3(\frac{1}{2}), \dots\}$ .

So the sum of these two sinusoids is  $\boxed{\text{not periodic.}}$

# Engineering Signals And Systems Ulaby Solutions

**Rachel Sandford**



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