Problem 3.26

Match the waveform letter with the spectrum number :

(a) matches to (3)

The signal as sum of sinusoids is given as:

$x(t) = 4cos(4\pi t + \pi) + 4cos(6\pi t + \frac{\pi}{2})$

(b) matches to (1)

The signal as sum of sinusoids is given as:

$x(t) = 2cos(4\pi t + \frac{\pi}{4}) + 4cos(6\pi t - \frac{\pi}{3})$

(c) matches to (2)

The signal as sum of sinusoids is given as:

$x(t) = 2cos(4\pi t + \frac{\pi}{4}) - 3$

(d) matches to (5)

The signal as sum of sinusoids is given as:

$x(t) = 4cos(4\pi t + \pi) - 2$

(e) matches to (4)

The signal as sum of sinusoids is given as:

$x(t) = 4cos(2\pi t + \pi) + 4cos(4\pi t + \pi)$