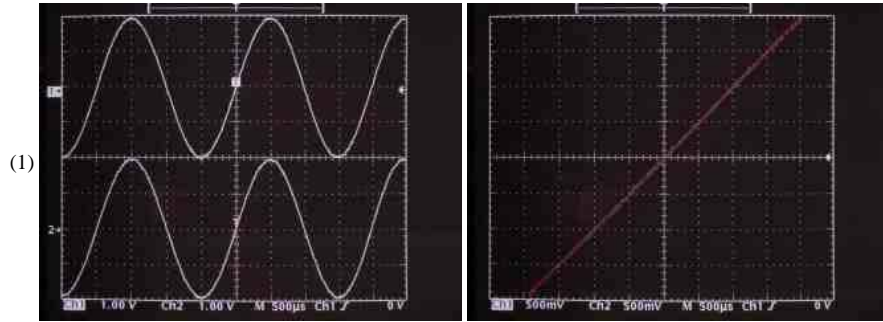
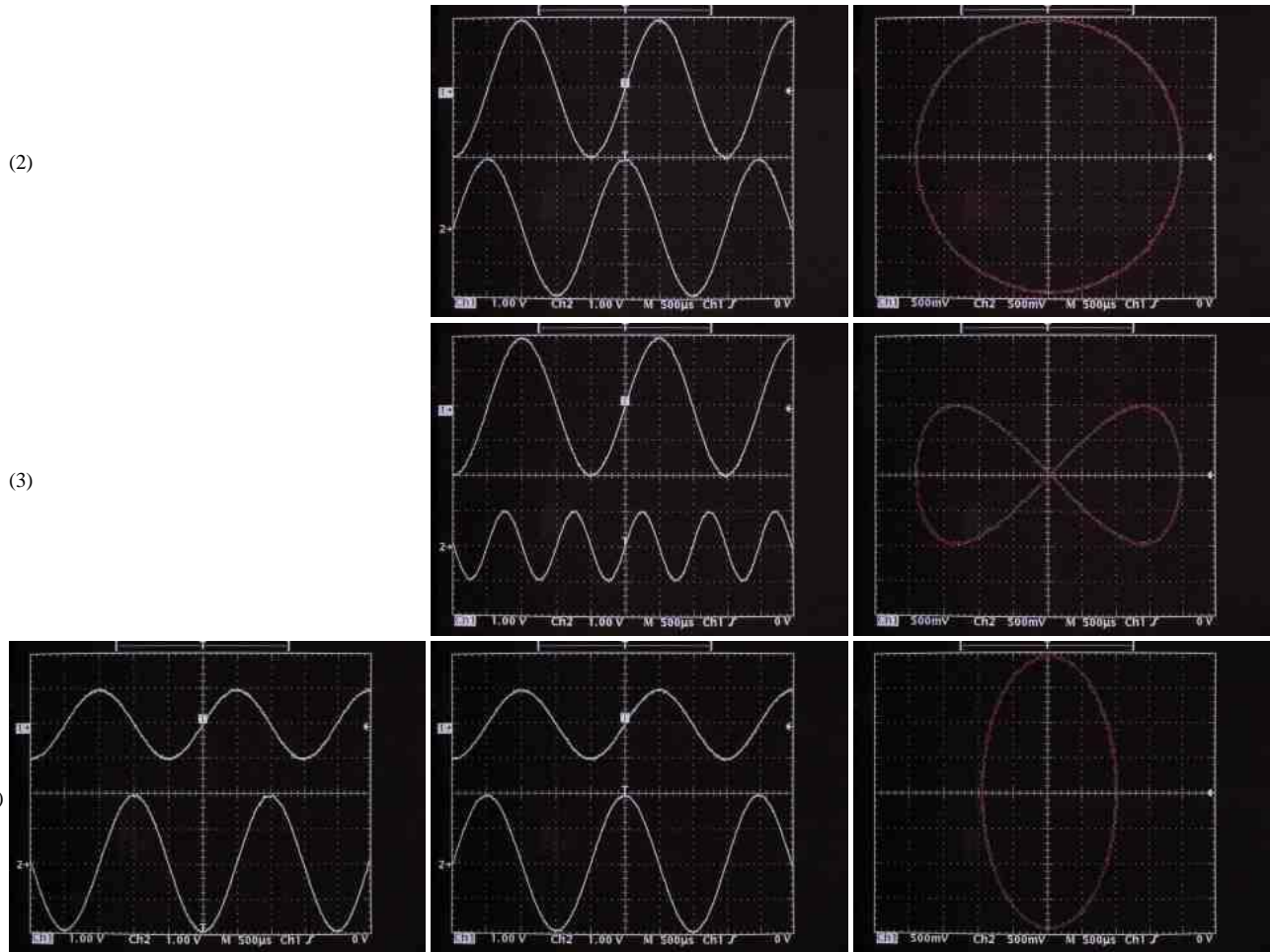


Answer #221

Here is the sample Lissajous figure with its reference graphs:

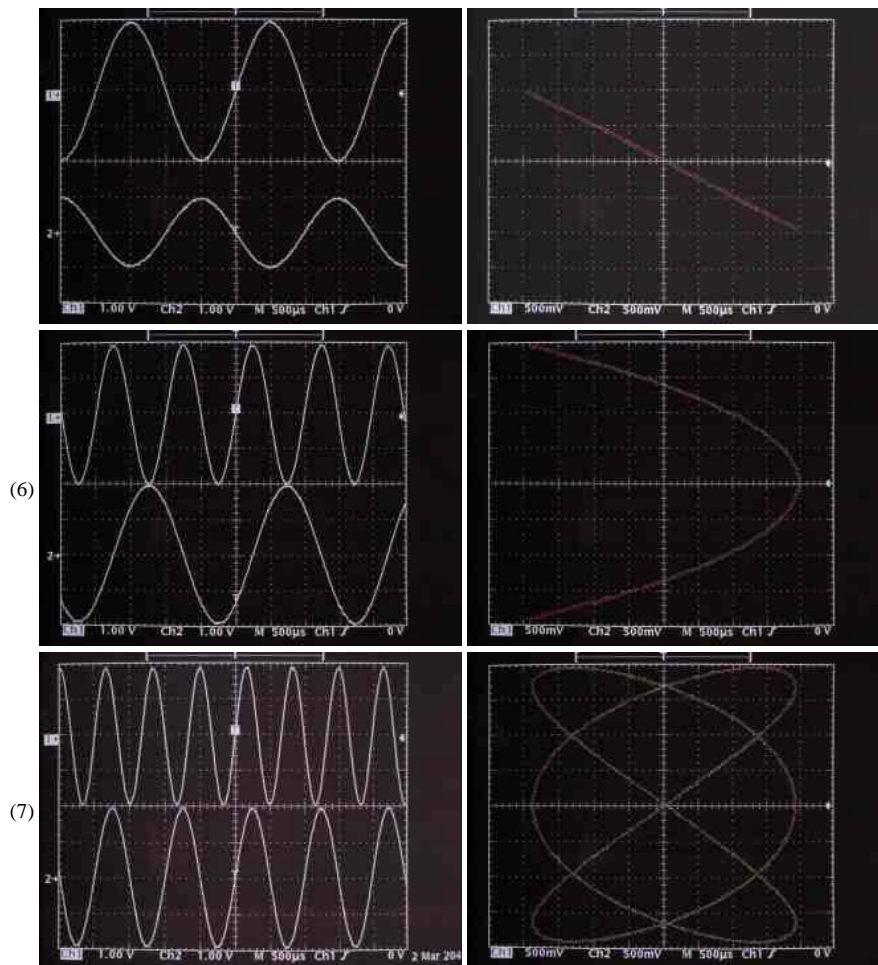


Here are the Lissajous figures with their reference graphs (Notice that there are two possible reference graphs for Figure 4; it is impossible to tell the direction that the figure is moving from a fixed pattern!):



Here are the reference graphs with their Lissajous figures:

(5)



An interesting effect can be obtained using the oscilloscope in a mode in which it produces a phosphorescent delay while the phase of one of the component waves is continually changed. Click your mouse [here for mpg#1](#) ($f_y = 2f_x$) or [here for mpg#2](#) ($3f_y = 2f_x$) showing this effect.

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For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](#) by e-mail or using phone number or regular mail address given on the [Lecture-Demonstration Home Page](#).