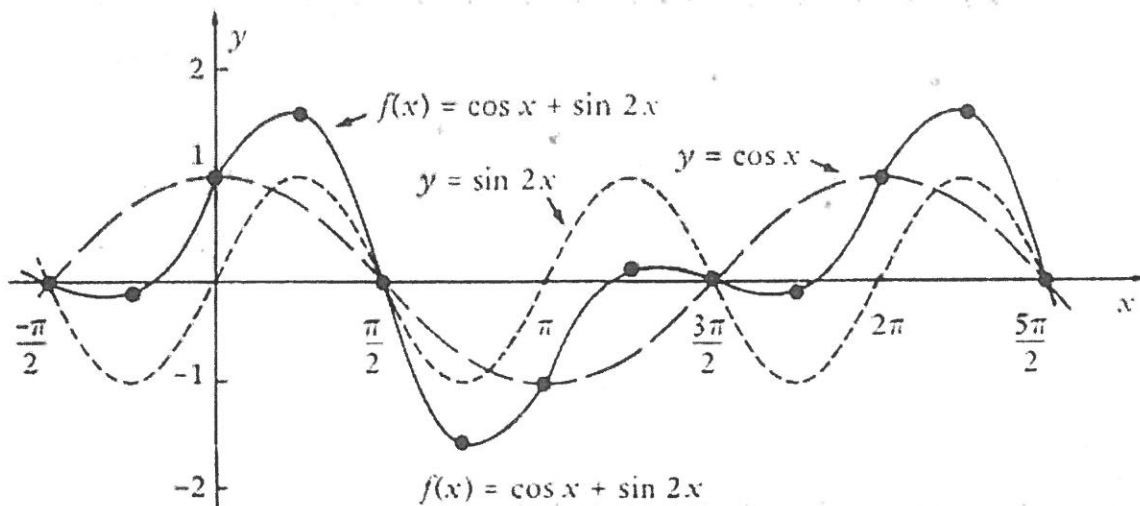
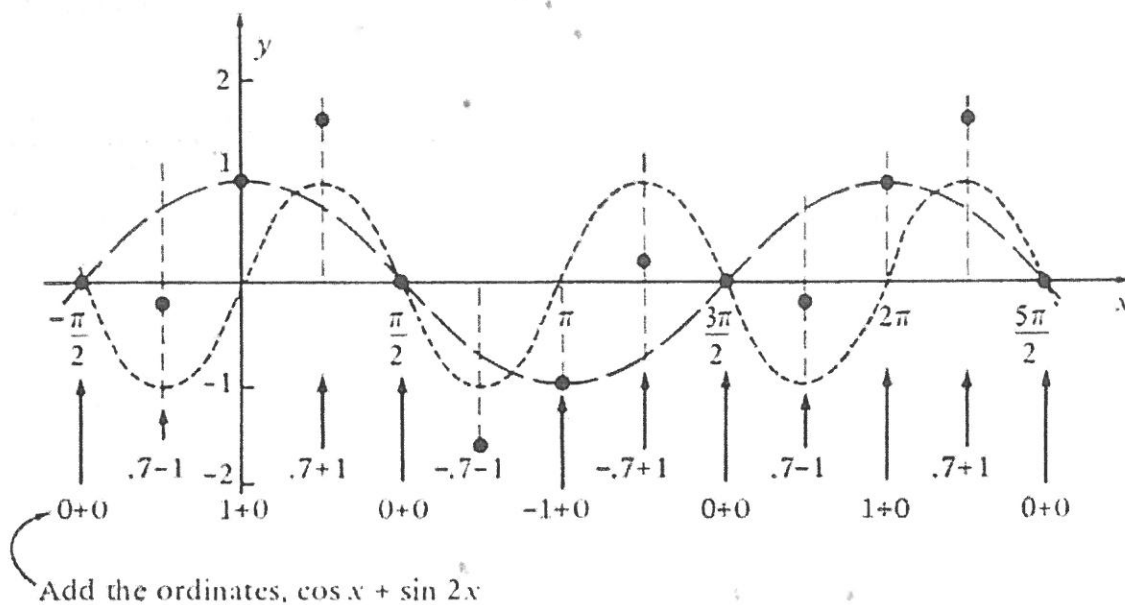


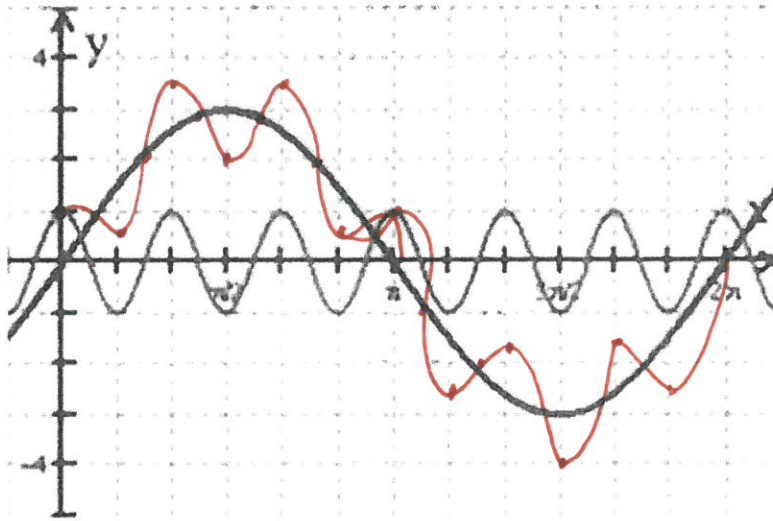
Section 5-4 Composition of Ordinates

Composition of Ordinates is the process of forming a new graph by adding two sinusoids or multiplying two sinusoids. (find the critical points on each graph, and then either add the y-coordinates together or multiply them, depending on the problem)

$$f(x) = \cos x + \sin 2x.$$



Graph $y = 3\sin x + \cos 6x$



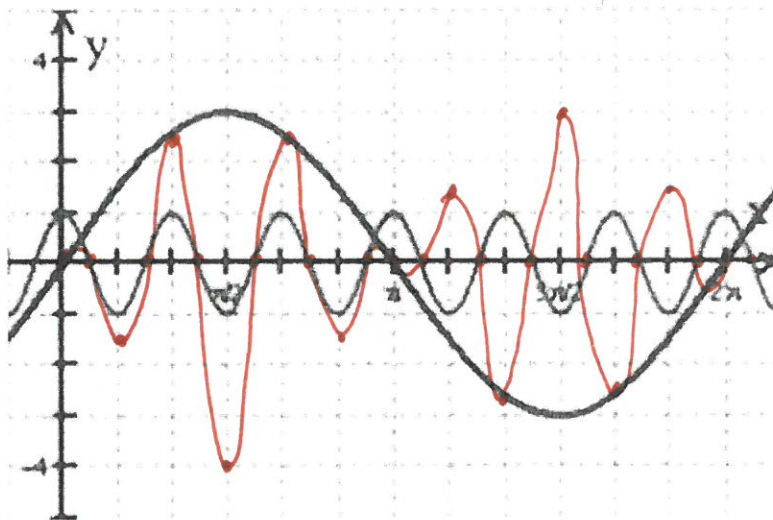
Amp - constant

S.A. - varies

(I know it looks
bad 😊)

Multiplying two sinusoids is similar, but instead of adding the y-coordinates together, you multiply them.

$$y = 3\sin x \cdot \cos 6x$$



Amp - varies

S.A. - constant

(Much better 😊)

\therefore Sums \rightarrow S.A. varies

Product \rightarrow Amp. varies