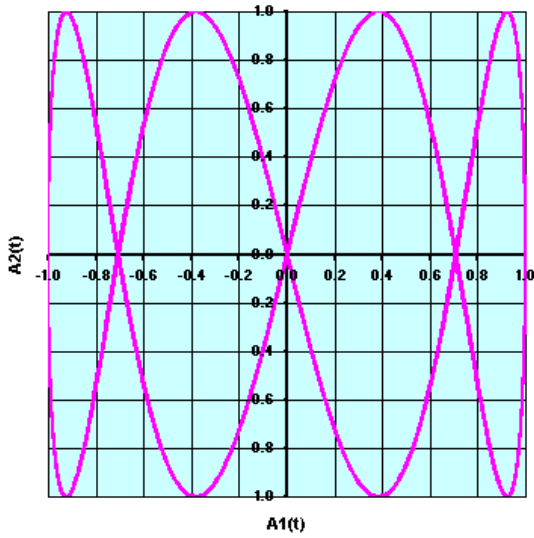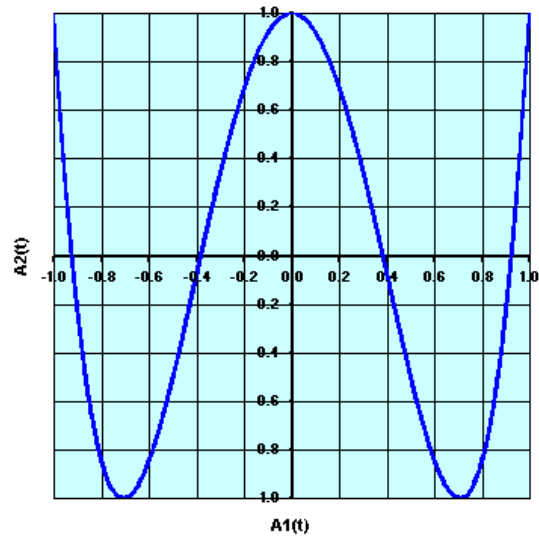# Frequency Ratio 4:1 (2 Octaves)

A2(t)=A20*Sin(w2*t) vs. A1(t)=A10*Sin(w1*t)
A20 = A10 = 1.0, f2/f1 = 4/1 = 4.0000000

A'2(t)=A20*Cos(w2*t) vs. A1(t)=A10*Sin(w1*t)
A20 = A10 = 1.0, f2/f1 = 4/1 = 4.0000000

Atot(t) = A1(w1*t) + A2(w2*t) vs. (w1*t)
A20 = A10 = 1.0, f2/f1 = 4/1 = 4.0000000

Atot(t) — A'tot(t)

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