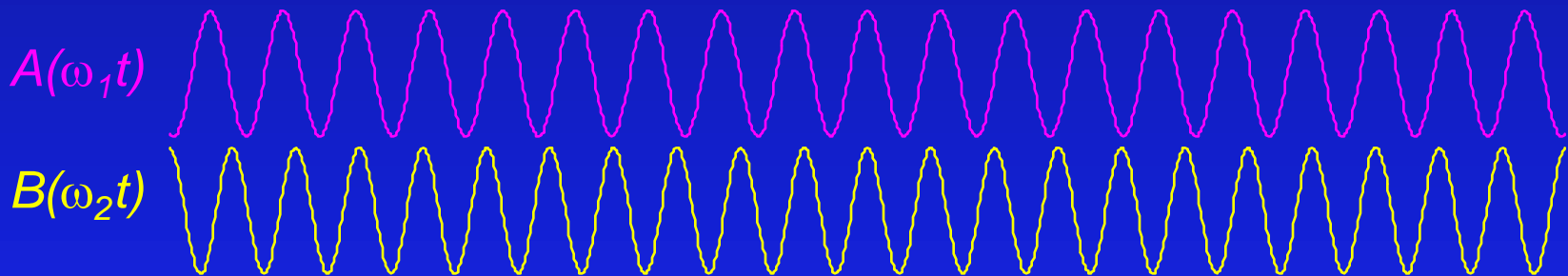# Superposition & Interference

- Consider two harmonic waves A and B meeting at $x=0$.
  - ➔ Same amplitudes, but $\omega_2 = 1.15 \times \omega_1$.
- The displacement versus time for each is shown below:

$A(\omega_1 t)$

$B(\omega_2 t)$

What does $C(t) = A(t) + B(t)$ look like??