

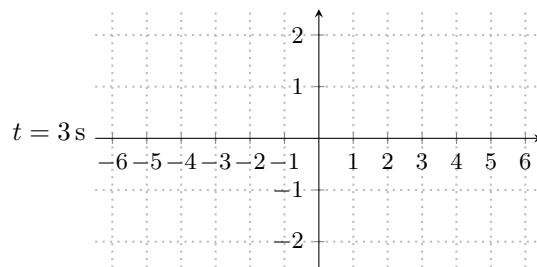
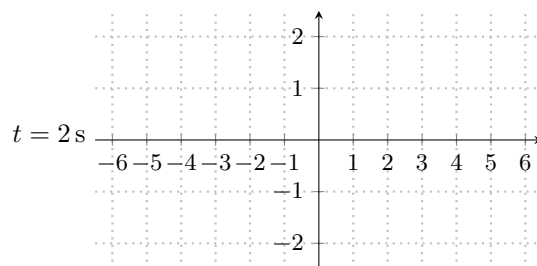
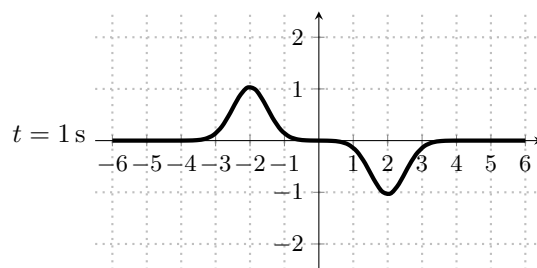
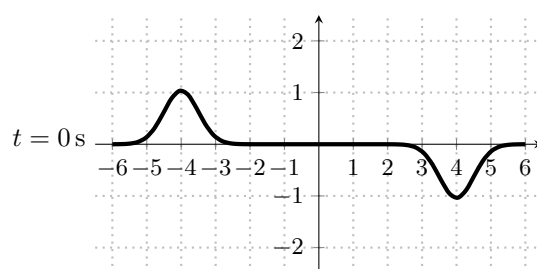
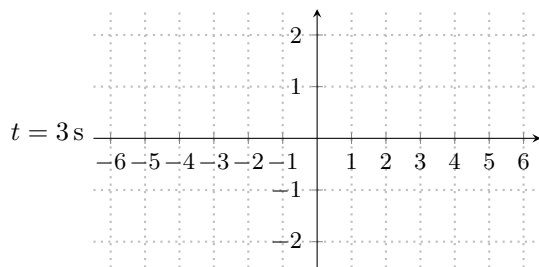
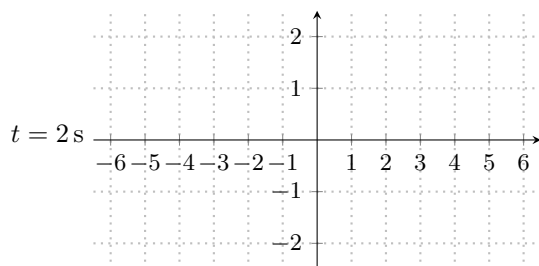
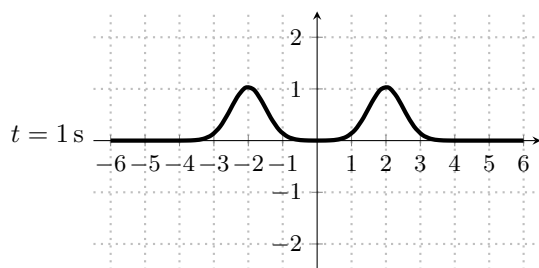
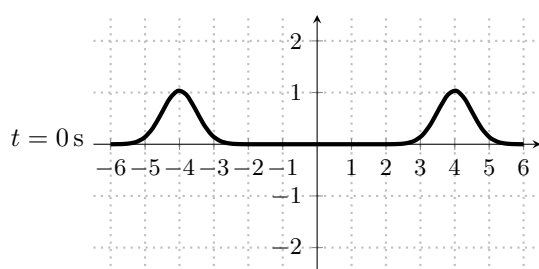
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

# Waves

## Superposition



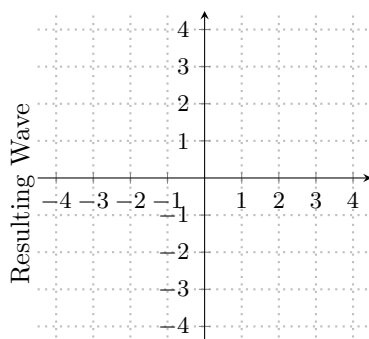
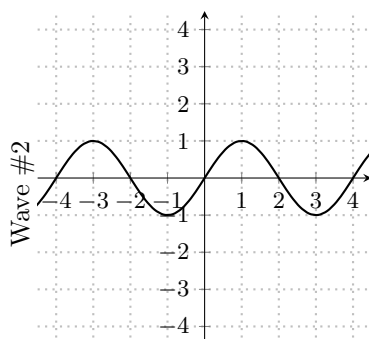
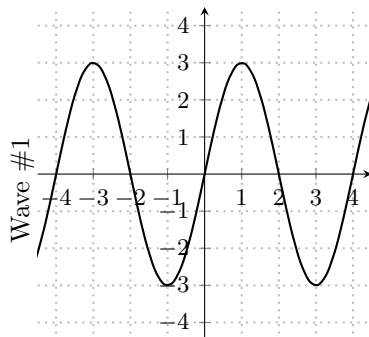
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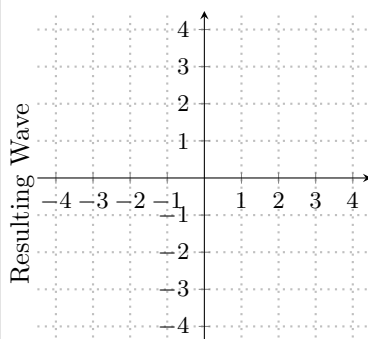
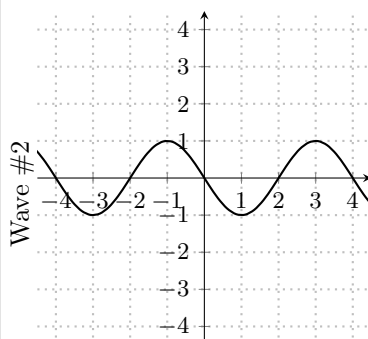
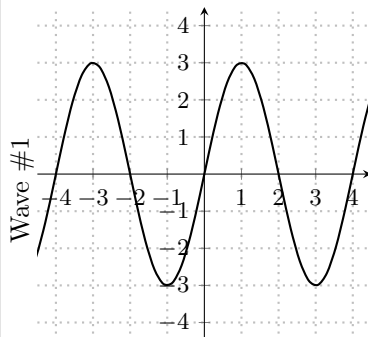
Period:

## Interference

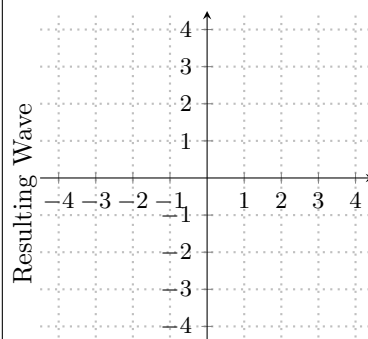
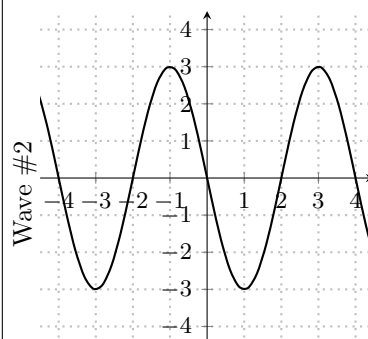
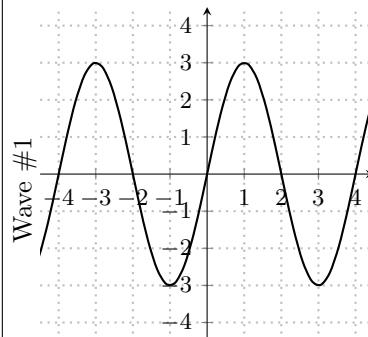
Situation (a)



Situation (b)



Situation (c)



Name:

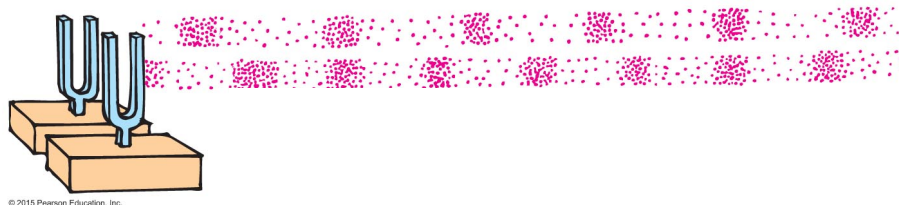
Date:

Period:

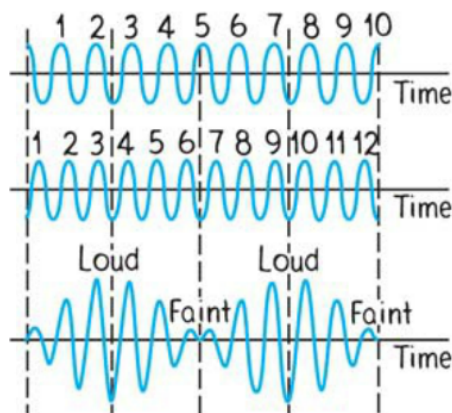
## Resonance

## Standing Waves

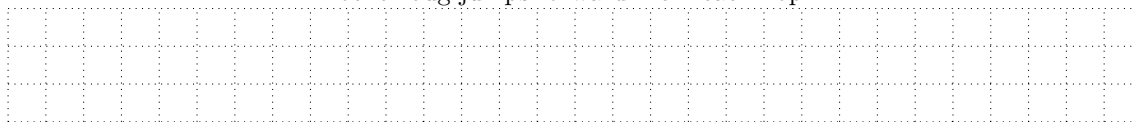
## Beats



Take a look at the illustration below that refers to a wave of frequency 10 Hz being played at the same time as a wave of frequency 12 Hz.



Draw your own beats! Draw two bugs jumping on the water. One bug jumps forward 3 cm each hop; the other bug jumps forward 4 cm each hop.



Concert Pitch	B♭ Trumpet Pitch	Frequency (Hz)	Concert Pitch	B♭ Trumpet Pitch	Frequency (Hz)	Concert Pitch	B♭ Trumpet Pitch	Frequency (Hz)
A#3	C4	233.08	A#4	C5	466.16	A#5	C6	932.33
B3	C#4	246.94	B4	C#5	493.88	B5	C#6	987.77
C4	D4	261.63	C5	D5	523.25	C6	D6	1046.50
C#4	D#4	277.18	C#5	D#5	554.37	C#6	D#6	1108.73
D4	E4	293.66	D5	E5	587.33	D6	E6	1174.66
D#4	F4	311.13	D#5	F5	622.25	D#6	F6	1244.51
E4	F#4	329.63	E5	F#5	659.25	E6	F#6	1318.51
F4	G4	349.23	F5	G5	698.46	F6	G6	1396.91
F#4	G#4	369.99	F#5	G#5	739.99	F#6	G#6	1479.98
G4	A4	392.00	G5	A5	783.99	G6	A6	1567.98
G#4	A#4	415.30	G#5	A#5	830.61	G#6	A#6	1661.22
A4	B4	440.00	A5	B5	880.00	A6	B6	1760.00
						A#6	C7	1864.66