

Answer on Question #47924 – Physics - Mechanics | Kinematics | Dynamics

Two tuning forks have frequencies of 239 Hz and 246 Hz. If the forks are vibrating at the same time what is the beat frequency?

Solution:

$f_1 = 239 \text{ Hz}$ – frequency of the first fork;

$f_2 = 246 \text{ Hz}$ – frequency of the second fork;

f – beat frequency;

Beat frequency is equal to the difference between two frequencies: $f = (246\text{Hz} - 239\text{Hz}) = 7\text{Hz}$

Answer: 7 Hz

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