

Physics 1114 - General Physics I

Quiz #29 - 2012.11.05

Solutions

1. If an person carrying an object emitting a sound at a given frequency is moving towards a stationary observer, what is the difference in perceived frequencies of each person?

The stationary person will hear the sound and perceive it at a higher frequency than the moving person.

2. If two sound waves with the same amplitude, but different frequencies interact, what sort of sound can be produced?

Beats can be produced by the interaction of two sound waves with the same amplitude and different frequencies.