

Exponential and Logarithmic Functions Part 1

11 DECIBELS IN ACOUSTICS

- a. The loudness of sound is measured 100 dB. What will be the value of intensity of sound? Given Weber constant $I_0 = 10^{-12}$.
- b. A fire alarm sounds with an intensity of $1Wm^{-2}$. What is the sound intensity in dB?
- c. A jet engine sounds $10Wm^{-2}$ is converted into dB. What is the sound in dB?
- d. A rock concert sound at 120 dB. How many times they has the sound energy as a normal conversion at 50 dB?
- e. What is the resultant sound level when 70 dB sound is added to an 80 dB sound?



Make sure that you ask for help if you don't understand completely! :)