

VI.

NOTICE: [] fill in the units in the square brackets

Task: Conductometry

Key words: conductivity, Siemens unit, resistance, physiological saline solution

sample	Temperature []	Conductivity []
tap water		
distilled water		
saturated salt solution		
physiological saline solution		

Discussion

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion:

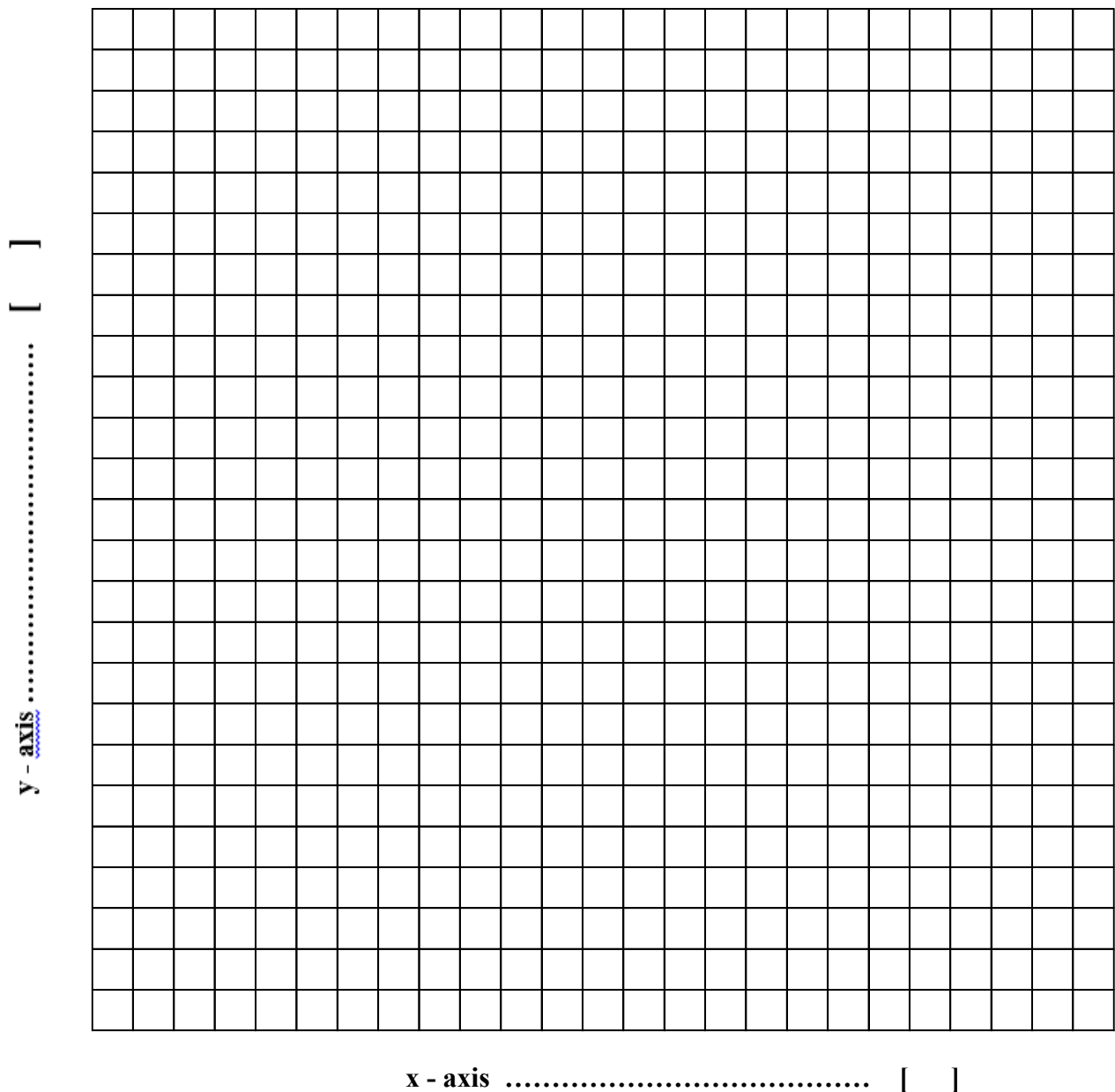
Task: Audiometry

Key words: sound intensity, level of intensity, decibel unit, hearing range

Measured values:

Frequency (Hz)	Level of the intensity - left ear []	Level of the intensity - right ear []
125		
250		
750		
1000		
1500		
2000		
3000		
4000		
6000		
8000		

Graphs of the dependence of threshold level of the intensity (Y axis) on frequency (X axis) - both left and right ears. Highlight (eg with a circle) the minimal and maximal values:



Discussion

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion:

Task: Doppler ultrasonic flowmeter

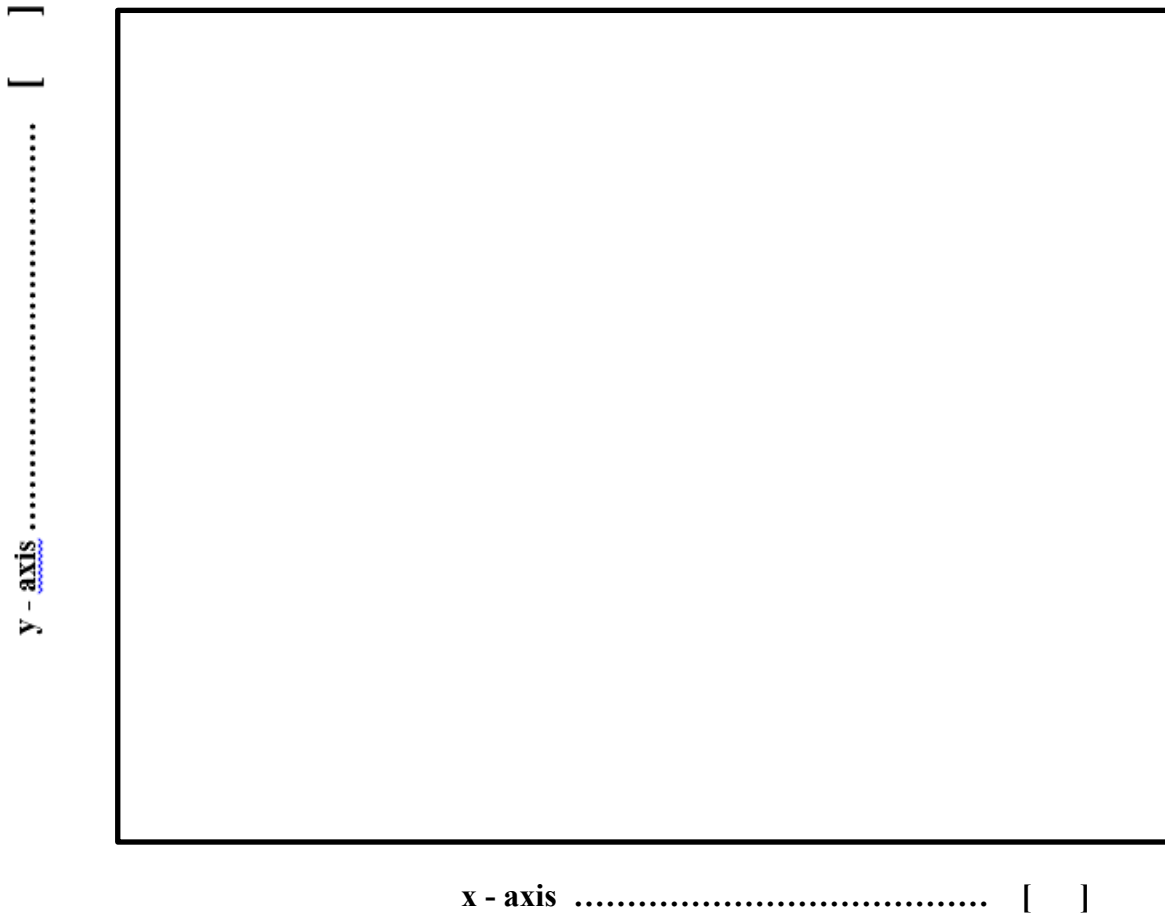
Key words: ultrasound, doppler effect, systole, diastole

(You will measure the rate of blood flow - velocity - over time in this task. The flow rate changes as the heart muscle contracts = systole and dilates=diastole)

Measured values:

	Left hand -velocity []	Right hand- velocity []
Systolic section		
Diastolic section		

Plot the waveform of doppler signal for right or left hand (redraw the graph from the device display):



Discussion

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion: