

Worksheet: Oscilloscope

Name:

Date:

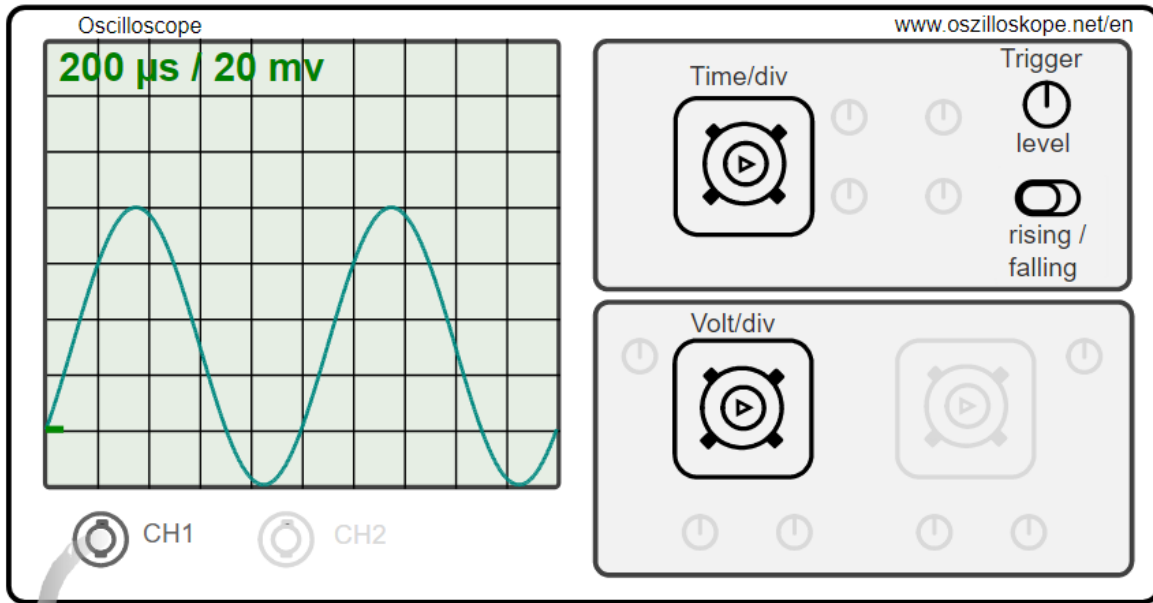


Figure 1: Oscilloscope in an experimental setup

Question 1:

Figure 1 shows an oscilloscope in a basic setup. Explain the intended use of the following elements:

- **Channel input (CH1 / CH2)**
- **Knob Volt / div**
- **Knob Time / div**
- **Trigger-level**
- **Slope**

Question 2:

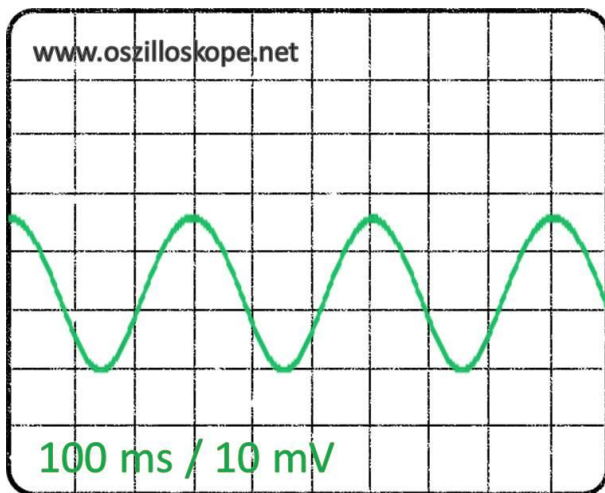


Figure 2: Measured sine wave

Figure 2 shows a sine wave. The oscilloscope settings are located at the bottom left of the display. Calculate the vibration amplitude and frequency of the vibration.

Question 3:

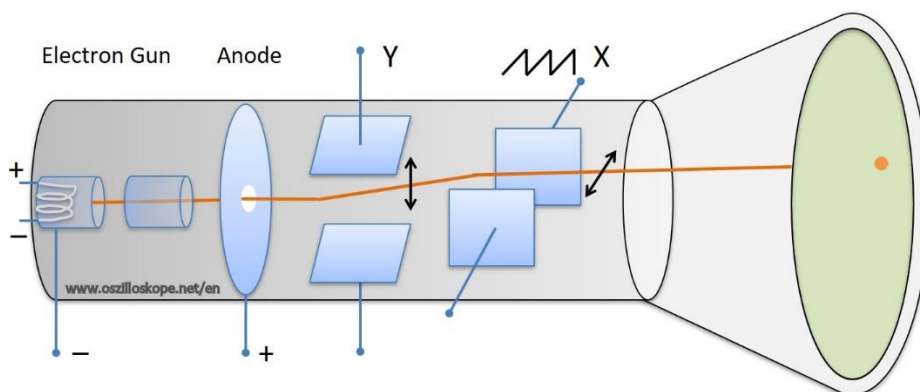


Figure 3: Analog oscilloscope

Explain the operating principle of an analog oscilloscope / cathode ray tube.