Inductive Reactance in an AC circuit Exp.

# Aim:

To find the inductance of an Inductor.

# Apparatus:

1 Digital Oscilloscope

1 Signal Generator

1 Inductor

2 Multimeters

# Method:

The oscilloscope was connected in parallel to the signal generator to accurately read the frequency of the AC current being supplied. A multimeter (referred to as the voltmeter) was also connected across the signal generator to measure the voltage to help ensure it stays constant. The signal generator was then connected in series to the inductor and another multimeter measuring the current (referred to as the ammeter).

To get a measurement the signal generator was adjusted until the oscilloscope read the desired frequency and the voltmeter read 5V. Then the current was read off of the ammeter