Engineering Graphics

using

LibreCAD

Objectives

To learn LibreCAD

To solve an example problem using LibreCAD

Introduction to LibreCAD

- About LibreCAD

  - LibreCAD: originally known as CADuntu

  - A free & open source 2D CAD (Computer Aided Design) application.

  - Latest stable release: 2016/ Version: 2.1.3

  - Operating Systems: Windows, macOS, Linux

  - Available in: 30 languages

  - Website: www.librecad.org

Help links for LibreCAD

- Wiki: https://wiki.librecad.org
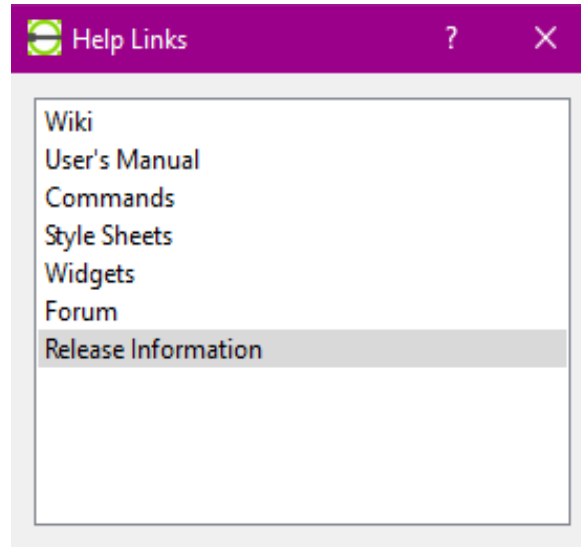
- User's manual:
  https://wiki.librecad.org/index.php/LibreCAD_users_Manual

- Commands: https://wiki.librecad.org/index.php/Commands

Let's learn a few features in LibreCAD…!

- Setting up preferences:
  - Application preferences
  - Drawing preferences

- Managing widgets & tools
  - Dock widgets
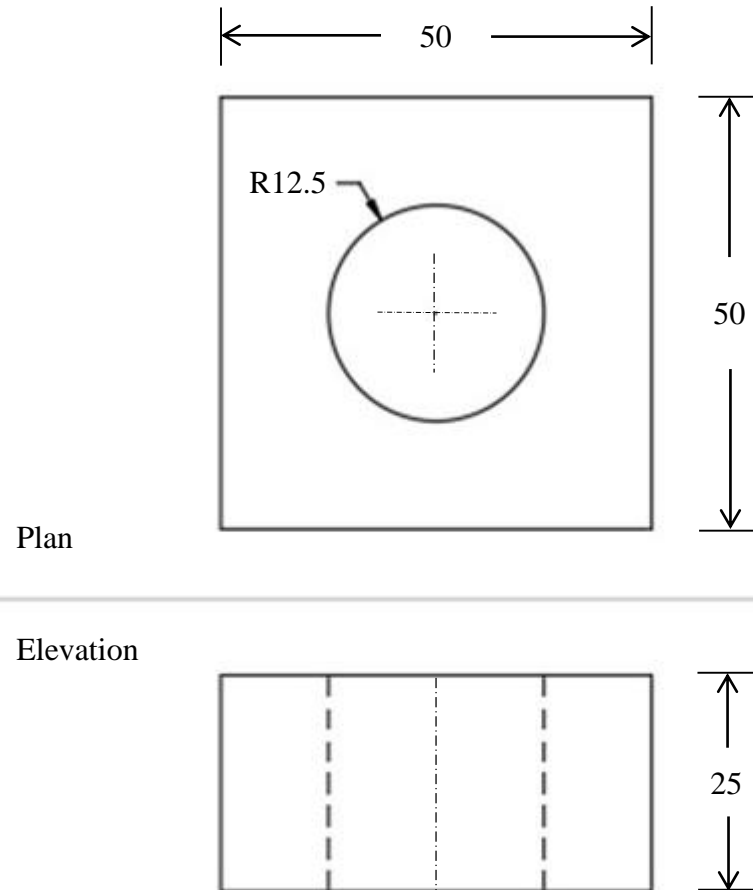 - Toolbars
  - Tool & menu creation

Let's learn a few features in LibreCAD...!

- Tools:
  - Line
  - Circle
  - Ellipse
  - Poly line
  - Dimension
  - Modify
  - Multi text
  - Text

Example Problem

- Example 1
  - Redraw the plan and elevation of the figure given below using LibreCAD.

(All dimensions are in mm)

Plan

Elevation

Steps for example problem

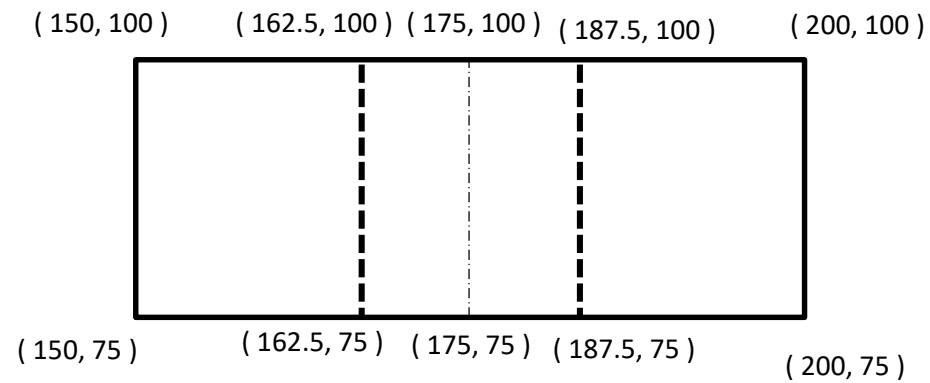|	
Step 1	• **Fix the boundary**
Step 2	• **Draw the plan**
Step 3	• **Draw the elevation**
Step 4	• **Do dimensioning for the drawing**
Step 5	• **Export to pdf**

Plan

(150, 200)

(200, 200)

(175, 175)

(150, 150)

(200, 150)

Elevation

(150, 100) (162.5, 100) (175, 100) (187.5, 100) (200, 100)

(150, 75) (162.5, 75) (175, 75) (187.5, 75) (200, 75)
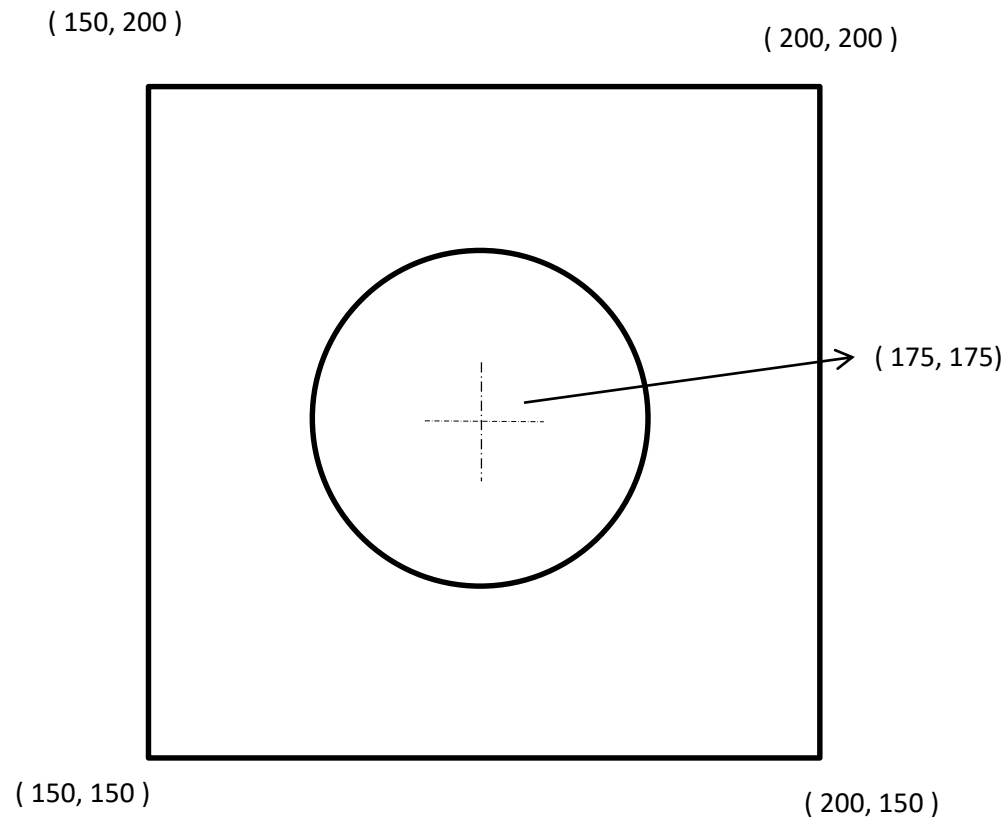
Thank You

Stay Home Stay Safe