

Engineering Graphics

Assignment for Week_08

Due Date: April 27, 2022

Instructions;

You will need to create Multiview drawing file by using CAD features (Draw, Modified tools, Text, Layers, Dimension Style).

After creating drawing, turn your drawing into photos and submit it.

It is necessary to make dimensioning and view names in your drawing.

1) Create template file for Matric Unit and name “**Matric_Temp**”.

In your template, you need to make following settings;

- Units
- Dimension style with specified values (arrow size, text height, dim lines width)
- Layers (Construction line layer, Seen line layer, Hidden line layer, Dimension layer)
- Save template file by name “Matric_Temp”.

It is necessary to make screen short to express the above processes for your dwt file.

2) Create template file for Imperial Unit and name “**Imperial_Temp**”.

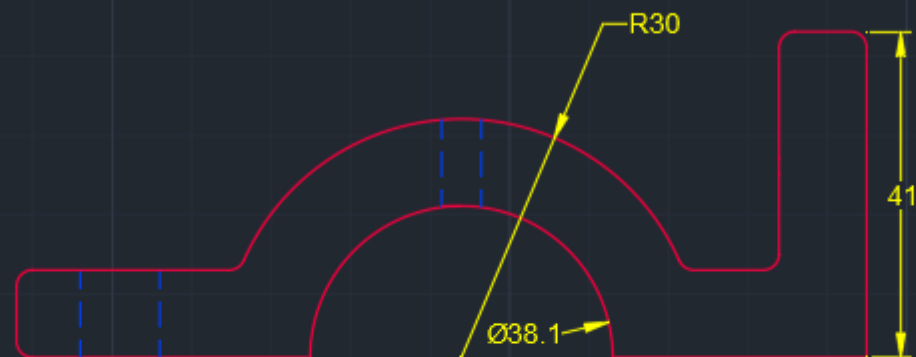
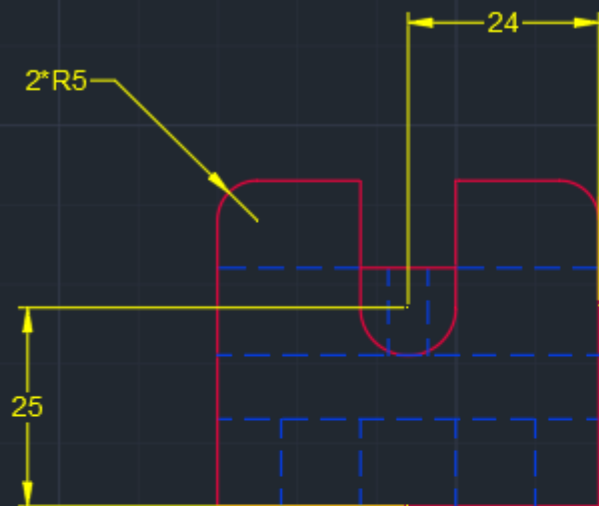
In your template, you need to make following settings;

- Units (Architectural)
- Dimension style with specified values (arrow size, text height, dim lines width)
- Layers (Construction line layer, Seen line layer, Hidden line layer, Dimension layer)
- Save template file by name “Imperial_Temp”.

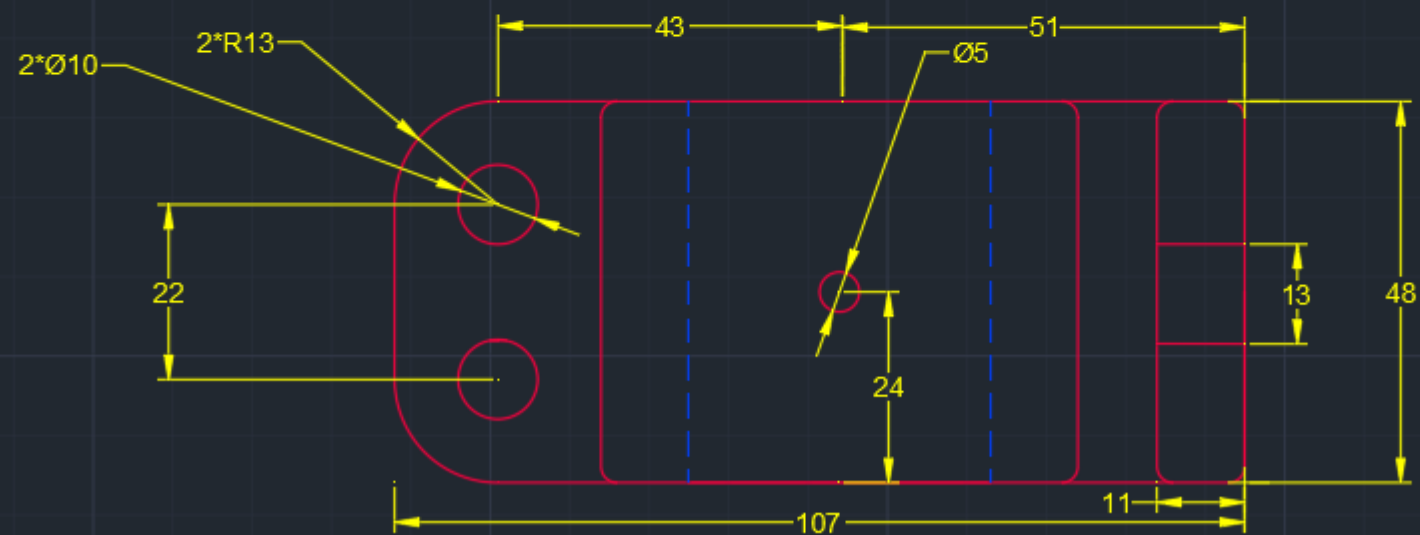
It is necessary to make screen short to express the above processes for your dwt file.

Isometric view of a mechanical part with the following dimensions and features:

- Overall Dimensions:**
 - Length: 107
 - Width: 48
 - Height: 41
- Top Surface Features:**
 - Two circular holes: $2 \times \phi 10$
 - Two radiused corners: $2 \times R13$
 - Distance between hole centers: 22
 - Distance from left edge to first hole center: 43
 - Distance from first hole center to second hole center: 51
 - Distance from second hole center to right edge: 13
- Side and Bottom Features:**
 - Bottom radius: $R30$
 - Bottom hole diameter: $\phi 38.10$ (nominal) and 37.97 (actual)
 - Side hole diameter: $\phi 5$
 - Side hole depth: 25
 - Side hole radius: $R13$
 - Side hole distance from right edge: 24
 - Bottom edge fillets: $2 \times R5$
 - Bottom edge fillets: $2 \times R2$
 - Bottom edge fillets: R
- Other Labels:**
 - METRIC** (in a blue box)
 - C1**
 - I REQD**



Front View



Top View