MUHAMMAD ISHAQ HARUNA
MECHANICAL ENGINEERING
19/ENG06/069
ENG 232 C ENGINEERING DRAWING 7

(1) A section view is a view used on a drawing to show an area or hidden part of an object, it is represented by Hatching lines

(2) i) Dimension and projection lines are narrow continuous lines 0.35mm thick, if possible clearly placed outside the outline of the drawing.

ii) Arrowheads should be approximately triangular, must be of uniform size and shape and in every case touch the dimension lines to which they refer.

iii) Arrowheads drawn manually should be filled in, Arrowheads machines does not need to be filled in.

iv) Adequate space must be left between rows of dimensions and a spacing of about 12mm is recommended.

v) Centre lines must never be used as dimension lines but must be left clear and distinct.

vi) Dimensions are quoted in millimeters to the minimum number of significant figures

vii) TO enable dimension to be read clearly, figures are placed so that they can be read from the bottom of the drawing.

3.) Half - section

This is a view of an object showing one-half of the view in section, the diagonal lines on the section drawing are used to indicate the area that has been theoretically cut.

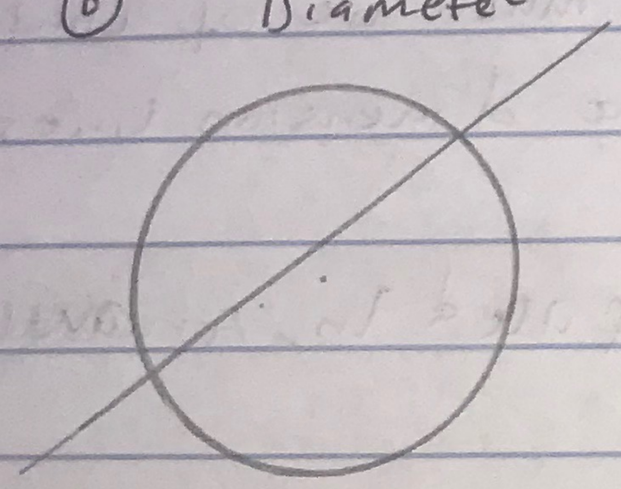
Full - SECTION

If the imaginary cutting plane passes through the entire object, splitting drawn object in two with the interior of the object revealed.

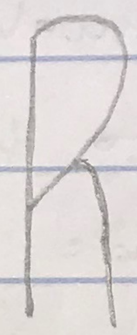
4.) A leader line can be terminated in three ways;
* with a dot within the outline of the object (surface)
* with an arrow head on the outline of an object (edge)
* without a dot or an arrow head on a dimension line

(5) Scale = 5 : 1
this means the drawing ~~will mean that the dra~~
this means that the drawing of the object is 5 times as larger as the object itself.
Scale = 1 : 10
This mean the object is 10 times smaller than in real life

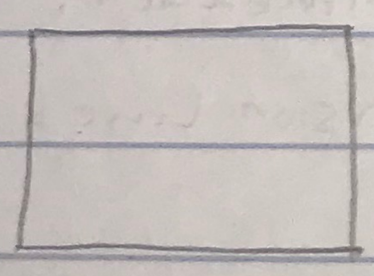
(6) Diameter



Radius

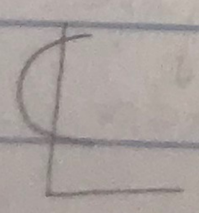


spherical radius



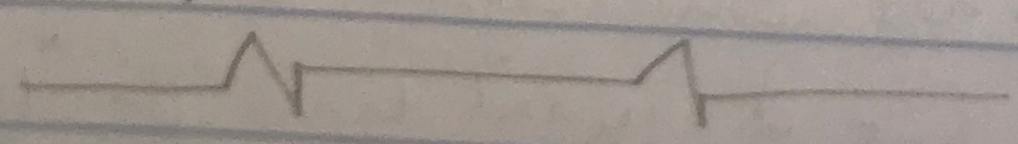
SR

center line



cutting plane line

Long break

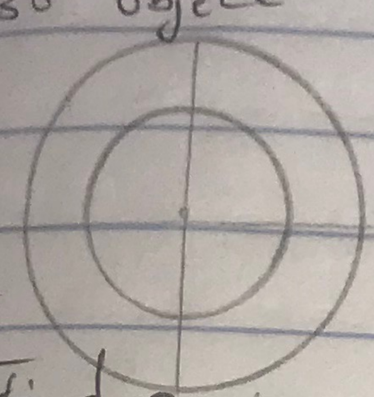


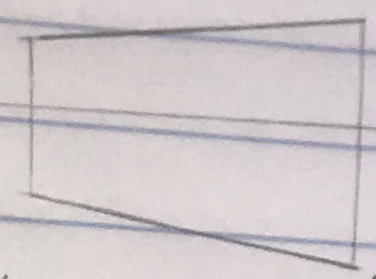
(2) As object, have three dimensions have length, width and height/thickness. The shapes and sizes of three dimensional object need to be represented on a sheet of drawing paper, which has only two dimensional planes.

A orthographic projection is a means of representing three-dimensional objects in two dimensions.

5

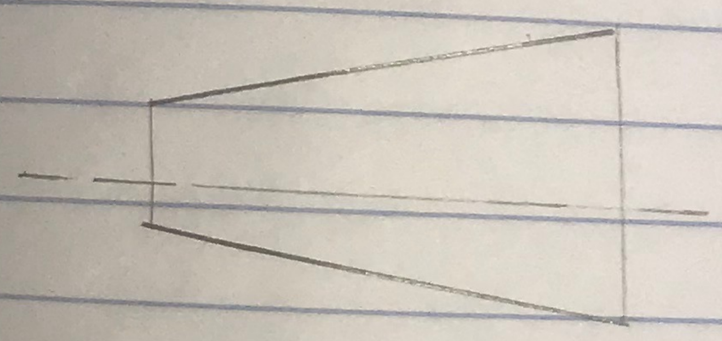
(a) First angle projection is a method of creating a 2D drawing of a 3D object

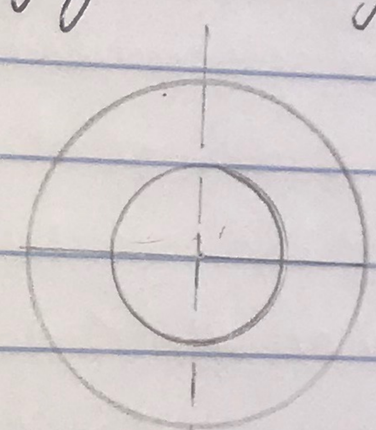




Third Angle Symbol

Third angle projection is a method of orthographic projection which is a technique in portraying a 3D design using a series of 2D views.





First Angle Symbol

OBJECTIVES

1) [A] Reference plane
2) [B] false
3) [C] Directly
4) [B] 120°
5) [A] 60°
6) [B] Rivet
7) [C] Crowning
8) [B] 45°
9) [A] a circle
10) [A] an ellipse
11) [C] Cylinder
12) [A] cone
13) [D] pendestal bearing
14) [C] 55°
15) [D] Horizontal plane