









Q5 state types of lines with illustration.

SR.NO	TYPES OF LINES	ILLUSTRATION	GENERAL APPLICATIONS
1.	CONTINUOUS THICK		VISIBLE OUTLINES
2.	CONTINUOUS THIN		DIMENSION LINES, EXTENSION LINES, PROJECTION LINES, LEADER LINES, REVOLVED SECTION, CONSTRUCTION LINES, ETC.
3.	DASHED MED THICK		HIDDEN LINES
4.	CHAIN THIN		CENTER LINES, LINES OF SYMMETRY, LOCUS LINE, PITCH CIRCLE
5.	CHAIN THIN AND THICK AT ENDS ONLY		CUTTING PLANES
6.	CHAIN THIN DOUBLE DASHED		OUTLINES FOR ADJACENT PARTS, ALTERNATIVE AND EXTREME POSITION MOVABLE PARTS
7.	CONTINUOUS THIN WAVY		IRREGULAR BOUNDARY LINE, SHORT BREAK LINE
8.	CONTINUOUS THIN ZIG-ZAGS		LONG BREAK LINE

(7) Engineering Compass

> Steel instrument consisting of two legs, one leg contains needle at the bottom and other leg contains a ring in which a pencil is placed. with the help of that it is used to draw arc or circle.

(8) Clips

> a plastic instrument used to hold or fix the sheet on the board.

(9) Sheet container

> a cylindrical plastic body container used to store and protect various materials like sheets, blueprints, maps, architect papers from dust and nominal water.

Q7 list out all the drawing instruments also write their usage.

(1) Drawing Board.

> The soft wooden platform on which the drawing sheet is placed to give support, so the size of the drawing board is made according to the size of the sheet. (mainly two types ① Imperial (212 x 585 mm) ② Half-Imperial (158 x 417 mm)

(2) Mini Draftster

> The instrument with two adjustable arms to required angle and at the end of the lower arm a scale set (perpendicular with each other) is attached. It is used for drawing horizontal lines, vertical lines, angles, parallel lines, perpendicular lines, etc.

(3) Set Squares

> They are used to draw lines with an angle between them. Generally set squares are of two types: ① 45°-45° ② 30°-60° and with the help of that the most common lines drawn with angle between are 30°, 45°, 60°, 90°.

(4) French Curves

> Plastic instrument with irregular shapes which are not drawn using compass and are suitable for drawing small curves and for long curves splines.

(5) Protractor

> Transparent plastic instrument in shape of a semi-circle and the edge of it consists reading with one-degree accuracy. It is used to measure the angles of lines.

(6) Roll-N-Draw ruler

> A plastic instrument containing a cylinder much like a rolling pin inside, thereby enabling it to roll along a sheet of paper. It is used to draw straight lines, parallel lines, angles, circles, etc.

(10) Pencil

> Used to draw on the paper. Here there are some limitations, the drawing appearance should be neat and understandable so any type of pencil is not suitable. Instead of that there are various types of pencil used depending upon the hardness of the pencil (ex: 9H, 2H, H, F, HB, 7B).

(11) Drawing Sheet

> It is a white piece of paper with uniform thickness and smooth surface on which an object is drawn. There are many various sizes available for drawing sheets like A0, A1, A2, A3, A4, A5.