

Manglam City, Govindpura, Kalwar Road, Jhotwara, JAIPUF

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Line, Lettering & Polygons

- Engineering drawing
- Every language has its own rules of grammar.
- Engineering drawing also has certain rules
- Rules of grammar: Lines, lettering, and Polygons.

Line Conventions

- Out lines: Lines drawn to represent visible edges and surface boundaries of objects are called outlines. These are continuous thick lines.
 Visible Object Thick
- Dimension Lines These are continuous thin lines. They are terminated at the outer ends by pointed arrowheads touching the extension lines.
- Extension Lines solid thin lines showing point or line to which dimension applies. They extend by about 3 mm beyond the dimension lines.
- Hidden or dotted line- Interior or hidden edges and surfaces are shown by hidden lines.

Centre line: Centre lines are drawn to indicate the axes of cylindrical, conical object and also show the centre of circles and arcs.

Cutting: Plane and Viewing-Plane Lines – indicate location of cutting planes for sectional views and the viewing position for removed partial views



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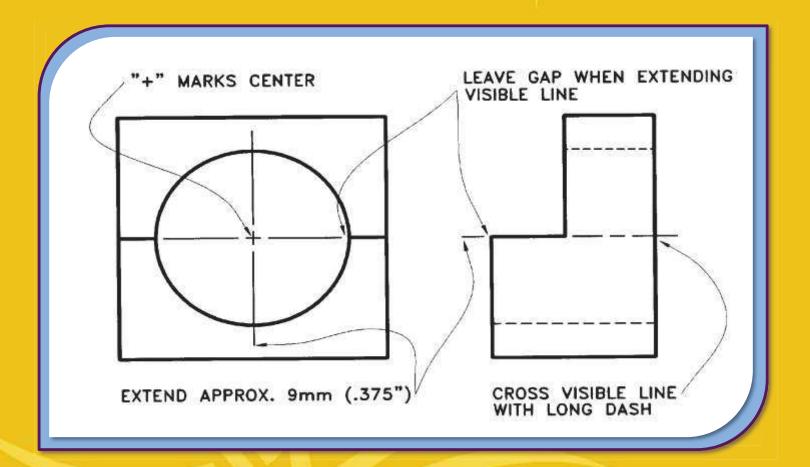
Sketching Line types

,	VISIBLE OBJECT LINES	THICK	THICK TINE APPROXIMATE WIDTH: 0.6mm
ŀ	HIDDEN LINE	THIN	THIN LINE APPROXIMATE WIDTH: 0.3mm
Ş	SECTION LINE	THIN	
(CENTERLINE	THIN	— THICK
\$	SYMMETRY LINE	++	
E	DIMENSION LINE EXTENSION LINE AND LEADER LINE	LEADER EXTENSION LINE DIMENSION THIN	LINE
	OR OR VIEWING-PLANE LINE	THICK THICK	
E	BREAK LINE	THICK	SHORT BREAKS LONG BREAKS
F	PHANTOM LINE		
ξ.	STITCH LINE	THIN	
(CHAIN LINE	THICK	

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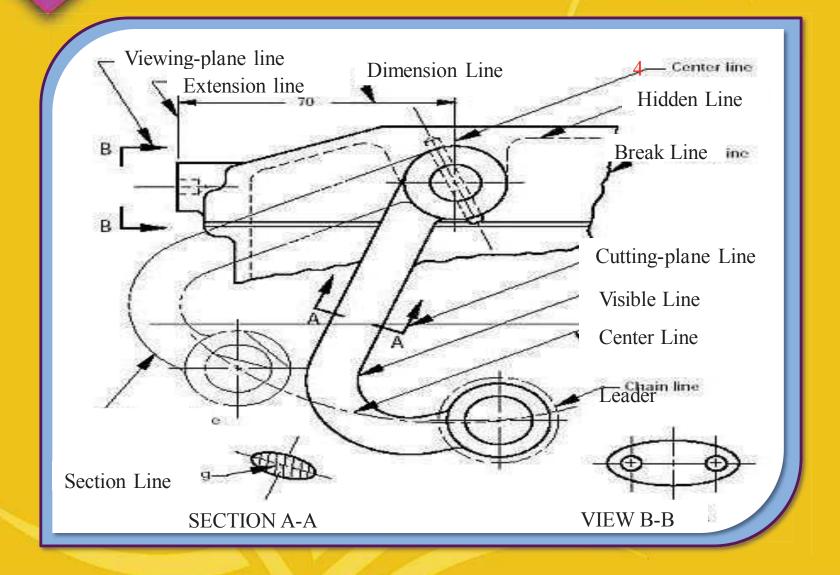
Centerline Conventions





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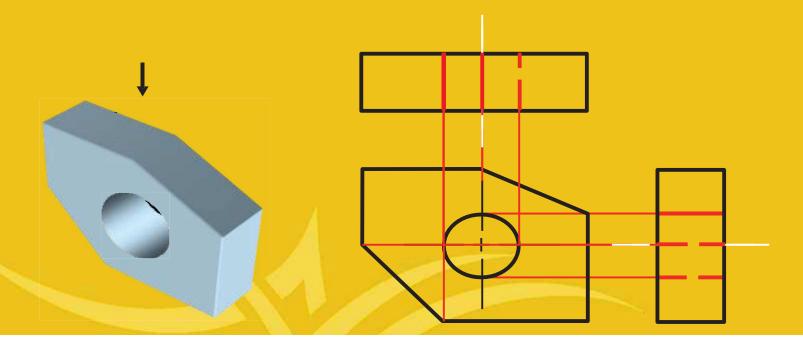
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RECEDENCEOF LINE

Order of importance **Visible** line

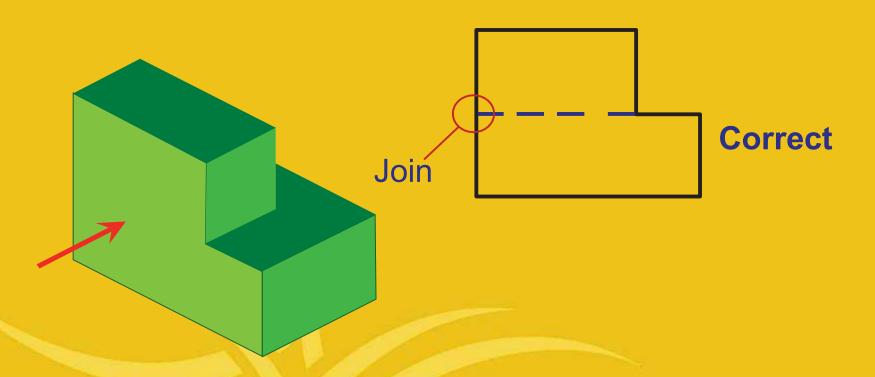
Hidden line

Center line



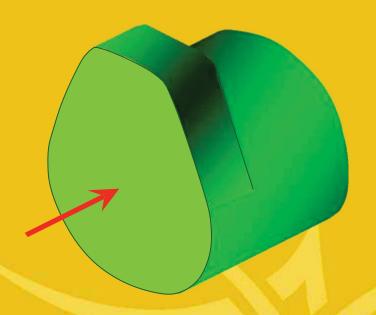
HIDDEN LINE PRACTICE

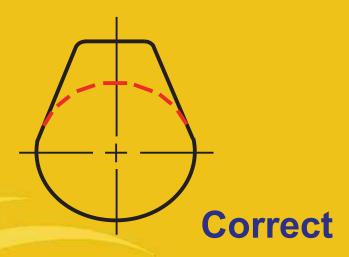
Hidden line should join a visible line, **except** it extended from the visible line.



HIDDEN LINE PRACTICE

Hidden line should join a visible line.



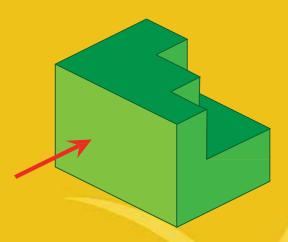


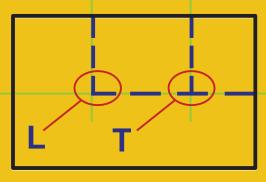
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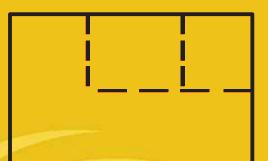
HIDDEN LINE PRACTICE

Hidden line should intersect to form L and T corners.





Correct



No!