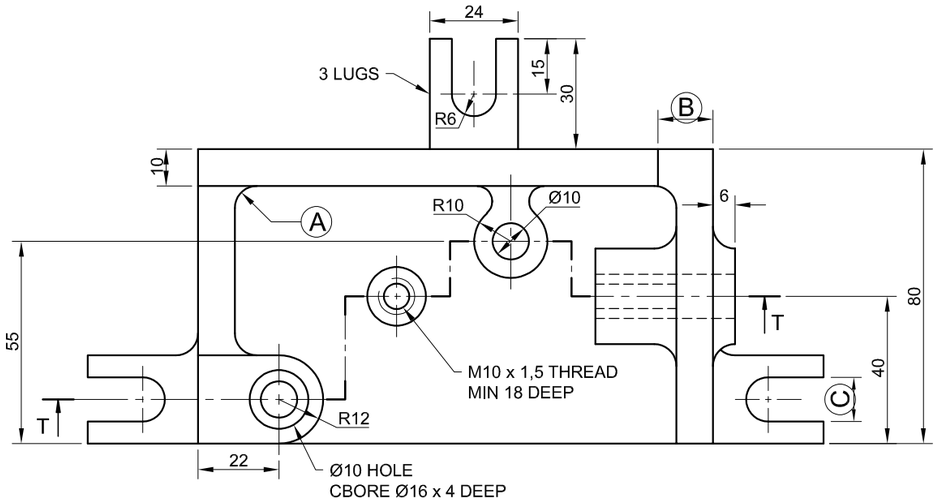
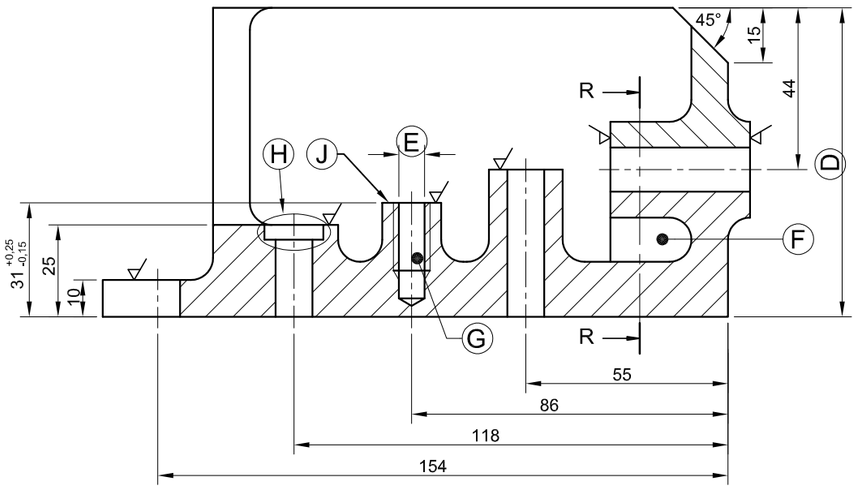
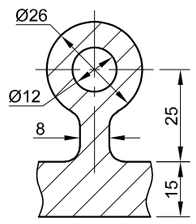
STAPLE



VIEW 2



VIEW 1



VIEW R-R

FILE NAME: MJIG-12-V5	MATERIAL: CAST IRON	QUANTITY: 30 UNITS	FINISH: POLISHED
DRAWING No. 3	SCALE 1 : 2	ALL DIMENSIONS ARE IN MILLIMETRES	
COMMISSIONED BY: JR MANUFACTURES 105 FIRST AVENUE, BRITS	DRAWING PROGRAMME: AUTOCAD 2018	ALL UNSPECIFIED RADII ARE 4 mm	
CASTFORM ENGINEERING 98 BROAD STREET MIDDELFONTEIN 4070 www.foundry.co.za 003 645 7820		DRAWN BY: SIPHO	DATE: 2018-11-13
		CHECKED BY: INGRID	DATE: 2018-12-14
		APPROVED BY: NDINGI	DATE: 2019-01-21
TITLE: MECHANICAL JIG			

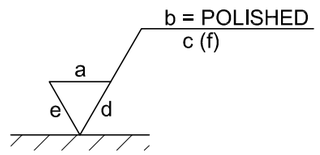
QUESTION 1: ANALYTICAL (MECHANICAL)

Given:
Two views and a section of a mechanical jig, a title block and a table of questions. The drawing has not been prepared to the indicated scale.

Instructions:
Complete the table below by neatly answering the questions which refer to the accompanying drawing, the title block and mechanical content. **[30]**

	QUESTIONS	ANSWERS			
1	What was Ingrid's responsibility?		1		
2	What is the manufacturer's website address?		1		
3	What is the file name?		1		
4	Who is the client?		1		
5	How many jigs must be manufactured?		1		
6	What is VIEW 1 called?		2		
7	What type of section is VIEW R-R?		1		
8	Name the type of section produced by cutting plane T-T.		1		
9	Determine the complete dimensions at: A: B: C: D: E:		5		
10	Determine the total length of the jig.		1		
11	Name the feature at F.		1		
12	What is the minimum depth of the thread required for the hole at G?		1		
13	Name the feature at H.		1		
14	How many surfaces of the jig must be machined?		1		
15	Describe the hatching mistake on VIEW 1.		2		
16	With reference to the tolerance, determine the minimum height at J.		1		
17	With reference to the machining symbol below, match the letter on the symbol with the correct label in the column to the right of this question.	DIRECTION OF LAY	4		
		ROUGHNESS VALUE			
		SAMPLING LENGTH			
		MACHINING ALLOWANCE			
18	In the space below (ANSWER 18), draw, in neat freehand, the symbol for the projection system used.		4		
		TOTAL	**30**		

QUESTION 17:



ANSWER 18:

EXAMINATION NUMBER	
EXAMINATION NUMBER	2

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