Downloaded from www.mycourses.co.za

higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

ENGINEERING DRAWING N1

15 November 2022

This marking guideline consists of 13 pages.

Copyright reserved

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

✓ = 1 mark
√ = ½ mark

QUESTION 1

1.1 Copied ANSWER BLOCK (1)

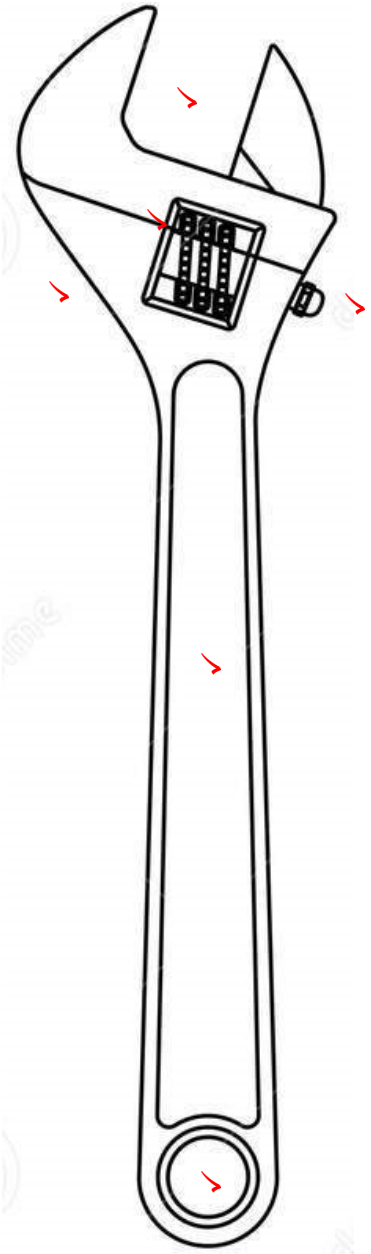
1.2
1.2.1 D
1.2.2 A
1.2.3 C
1.2.4 B
1.2.5 C

(5 × 1) (5)
[6]

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

QUESTION 2: FREEHAND DRAWING



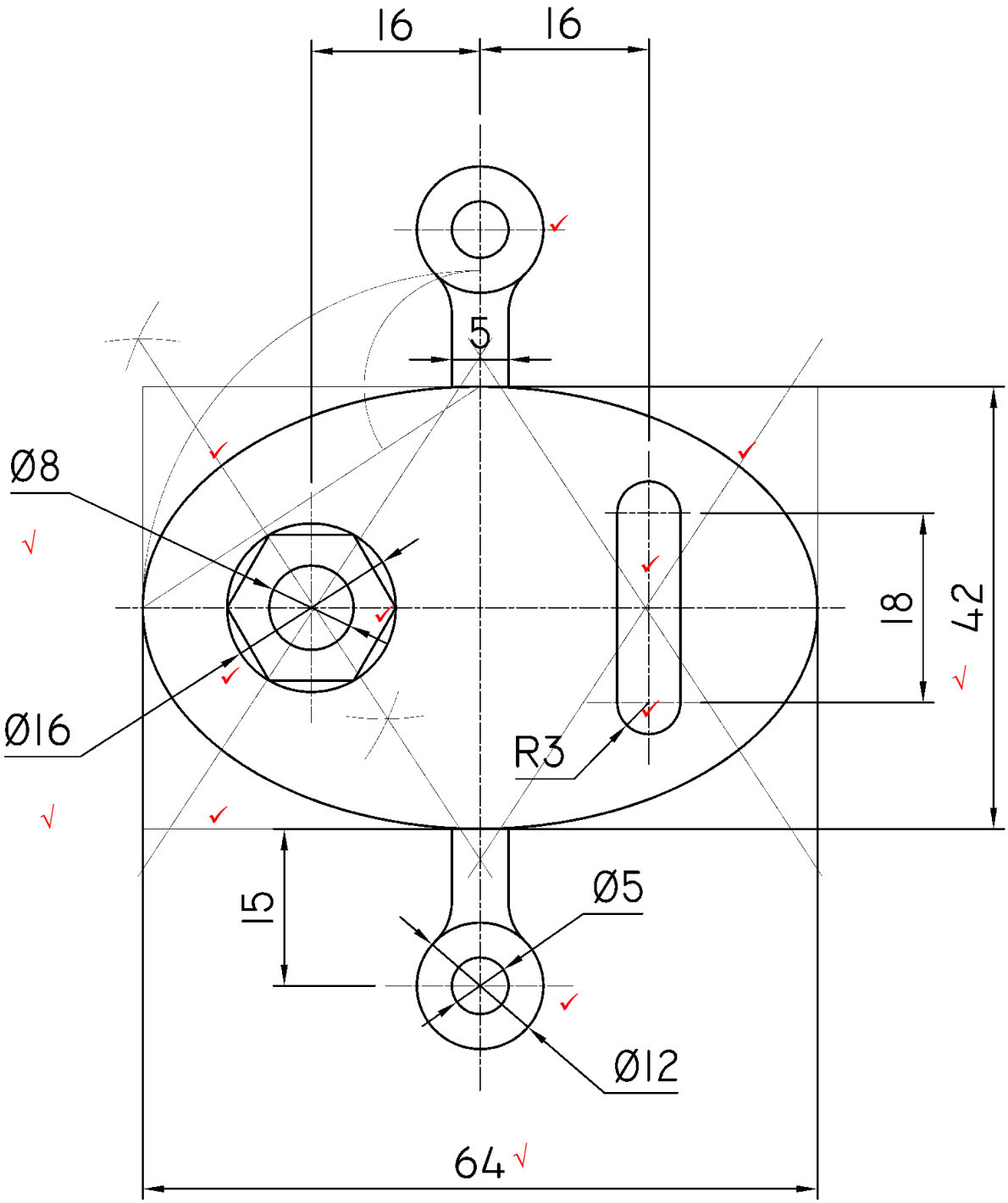
MARKING CRITERIA	
Correctness	6
Line work	2
Proportion	2
TOTAL	**10**

Copyright reserved

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

QUESTION 3: REPRODUCTION DRAWING



COVERPLATE✓
SCALE 2:1✓

MARKING CRITERIA	
Correctness	9
Line work	1
Accuracy	1
Dimensions	2
Title and scale	2
TOTAL	**15**

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

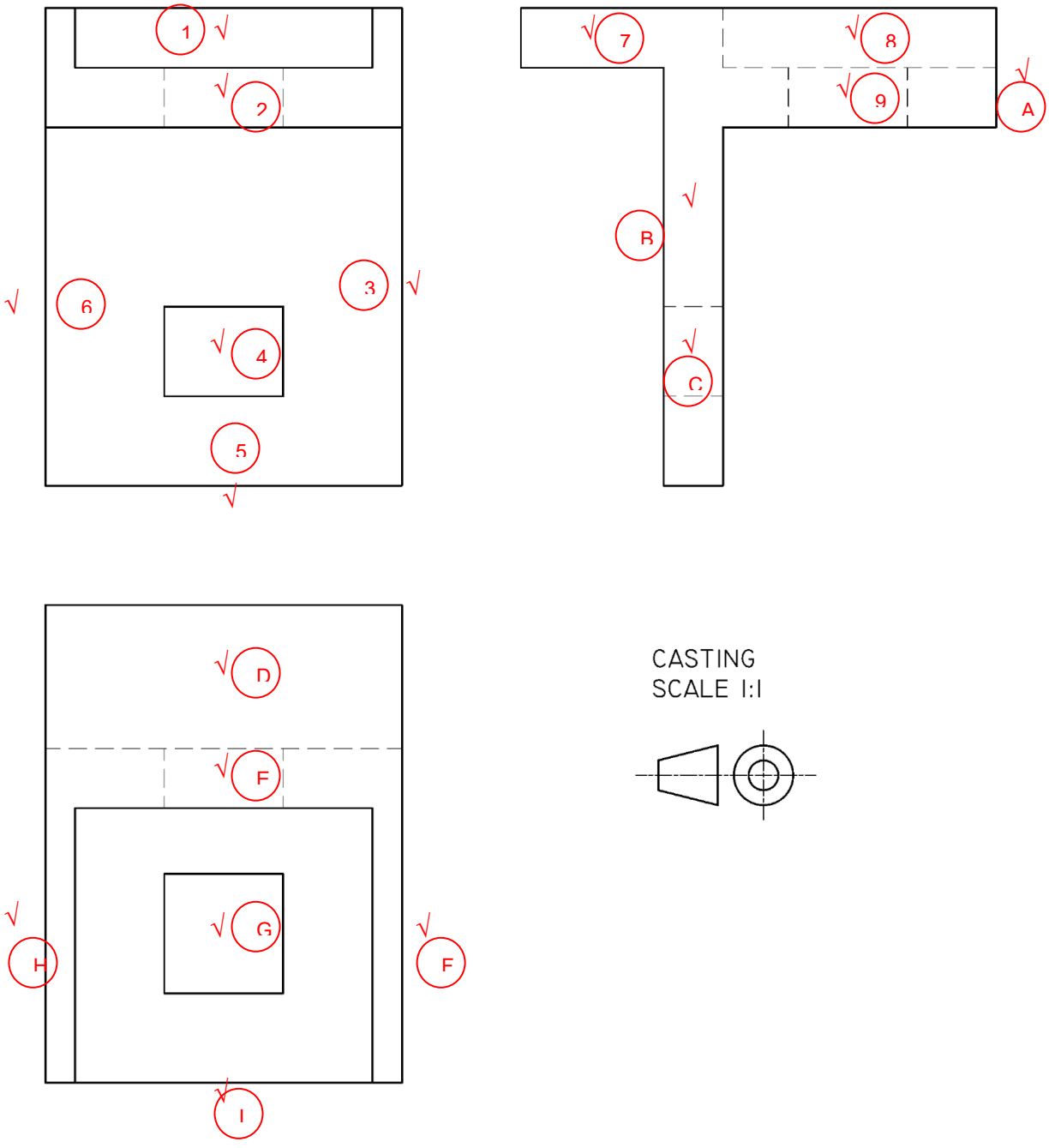
1	3	Marks for ellipse + construction lines	3 Marks
2	2	Marks hexagon	2 Marks
3	2	Marks for other circles	2 Marks
4	2	Marks for groove inside ellipse	2 Marks
		TOTAL	**9 Marks**

[15]

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

QUESTION 4: FIRST-ANGLE ORTHOGRAPHIC PROJECTION



MARKING CRITERIA			
	FRONT	LEFT	TOP
Correctness	3	3	3
Line work	2		
Accuracy	2		
Title and scale	1		
Symbol	1		
TOTAL	**15**		

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

MARK ALLOCATION FOR CORRECTNESS – QUESTION 4

FV

1	½ Mark top slot	½ Mark
2	½ Mark hidden detail	½ Mark
3	½ Mark right-side line	½ Mark
4	½ Mark rectangular	½ Mark
5	½ Mark bottom line	½ Mark
6	½ Mark left-side line	½ Mark
	TOTAL	**3 Marks**

LV

7	½ Mark top-left side	½ Mark
8	½ Mark hidden detail	½ Mark
9	½ Mark hidden detail	½ Mark
A	½ Mark top-right side	½ Mark
B	½ Mark bottom hidden detail	½ Mark
C	½ Mark bottom part	½ Mark
	TOTAL	**3 Marks**

TV

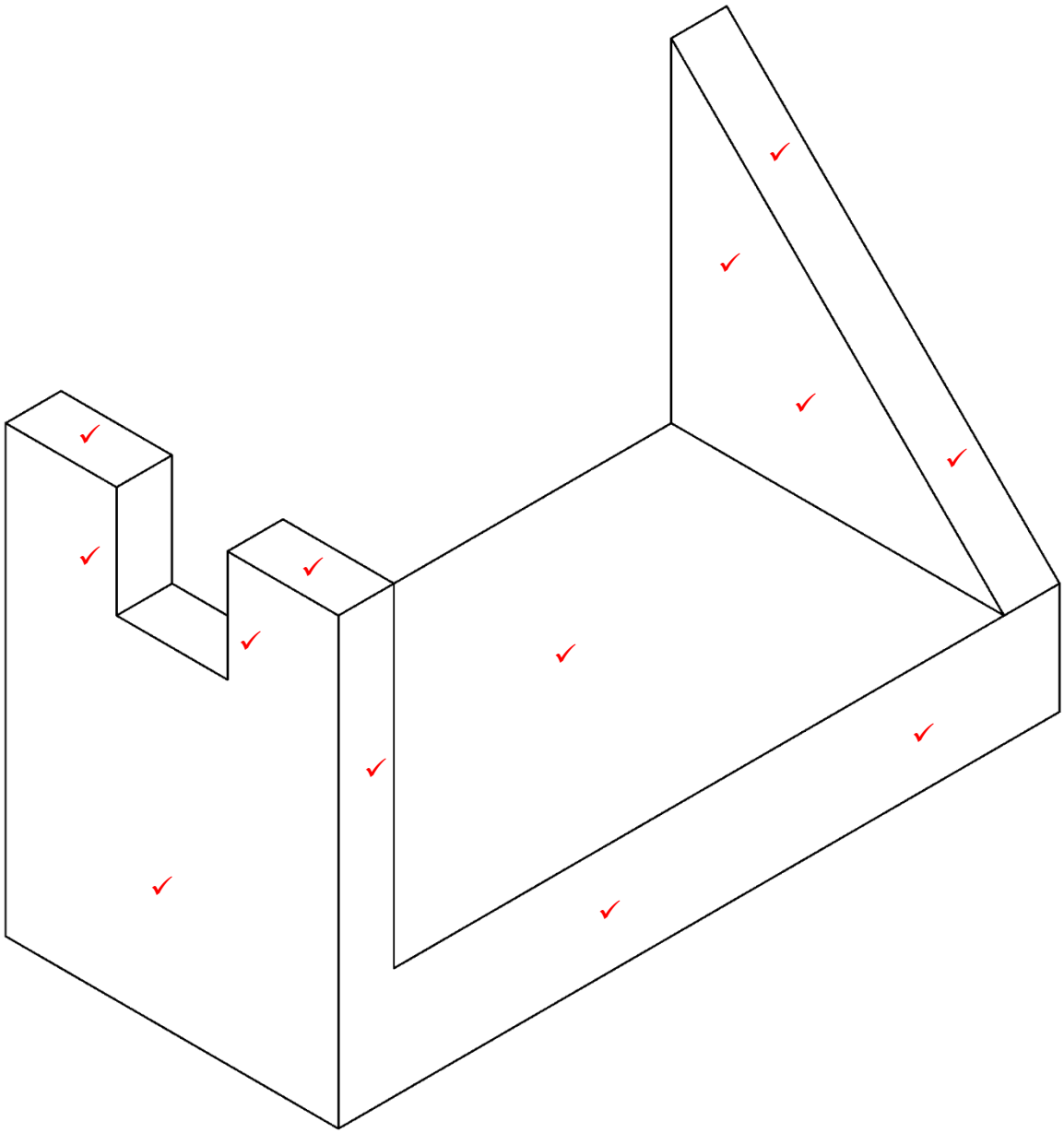
D	½ Mark top part	½ Mark
E	½ Mark hidden detail	½ Mark
F	½ Mark right-side line	½ Mark
G	½ Mark rectangle	½ Mark
H	½ Mark left-side line	½ Mark
I	½ Mark bottom line	½ Mark
	TOTAL	**3 Marks**

Copyright reserved

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

QUESTION 5: ISOMETRIC DRAWING



MARKING CRITERIA	
Correctness	13
Lowest point	1
Line work	2
Accuracy	2
TOTAL	**18**

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

MARK ALLOCATION FOR CORRECTNESS – QUESTION 5

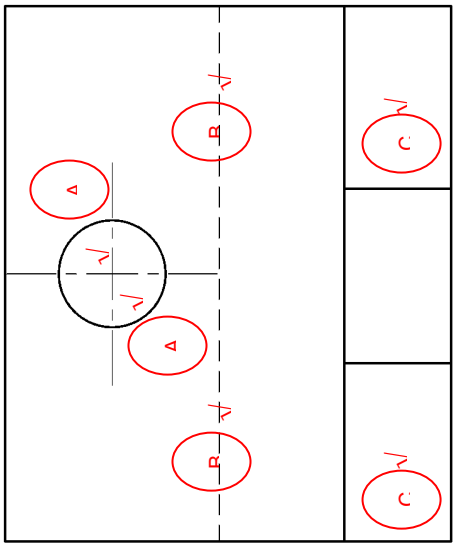
1	5	Marks left view	5 Marks
2	4	Marks front view	4 Marks
3	4	Marks top view	4 Marks
		TOTAL	**13 Marks**

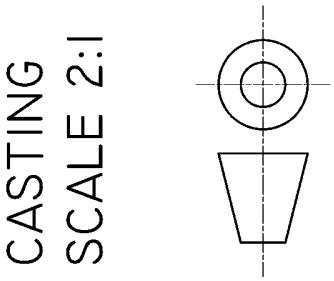
Copyright reserved

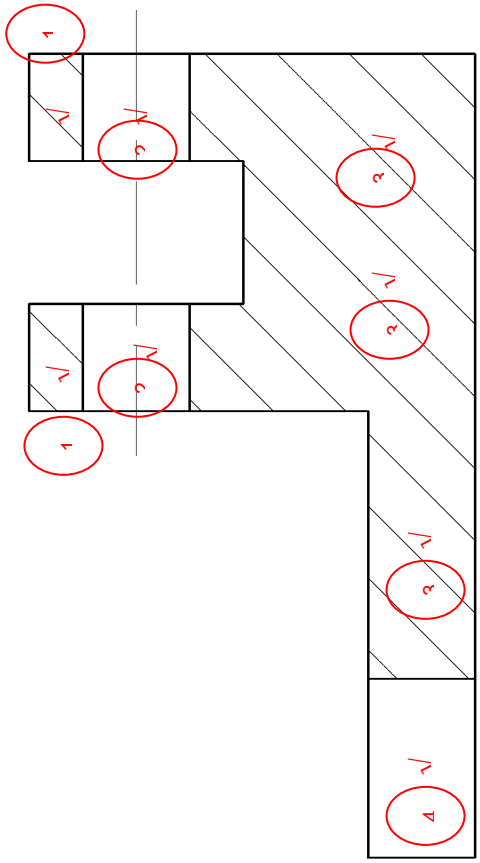
Downloaded from www.mycourses.co.za

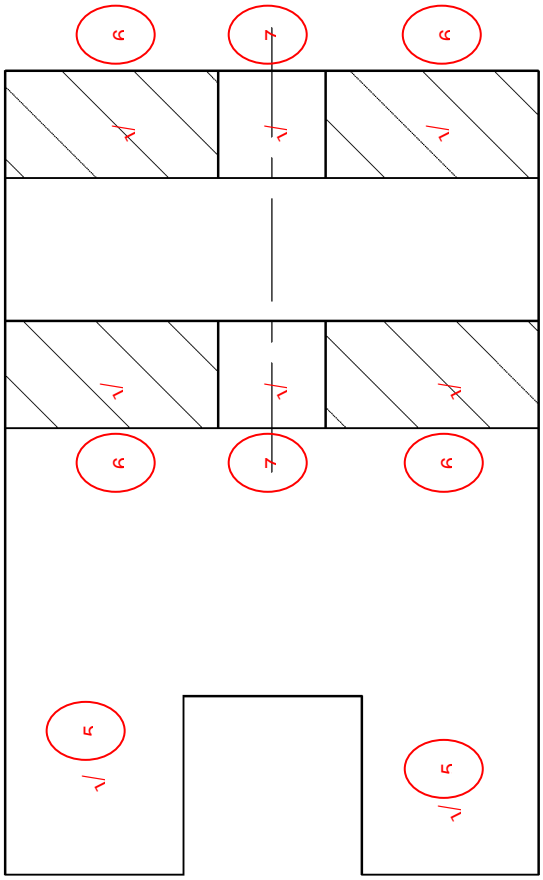
Downloaded from www.mycourses.co.za

QUESTION 6: SECTIONAL DRAWING









Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

MARKING CRITERIA			
	FRONT	**LEFT**	**TOP**
Correctness	4	3	4
Line work	2		
Accuracy	2		
Symbol	2		
TOTAL	**17**		

MARK ALLOCATION FOR CORRECTNESS – QUESTION 6

FS-FV

1	½ Mark for sectioning (x2)	1 Mark
2	½ Mark for holes (x2)	1 Mark
3	½ Mark for sectioning (x3)	1½ Marks
4	½ Mark for un-sectioned groove	½ Mark
	TOTAL	**4 Marks**

LV

A	½ Mark for holes (x2)	1 Mark
B	½ Mark for hidden detail (x2)	1 Mark
C	½ Mark for bottom part (x2)	1 Mark
	TOTAL	**3 Marks**

FS-TV – A-A

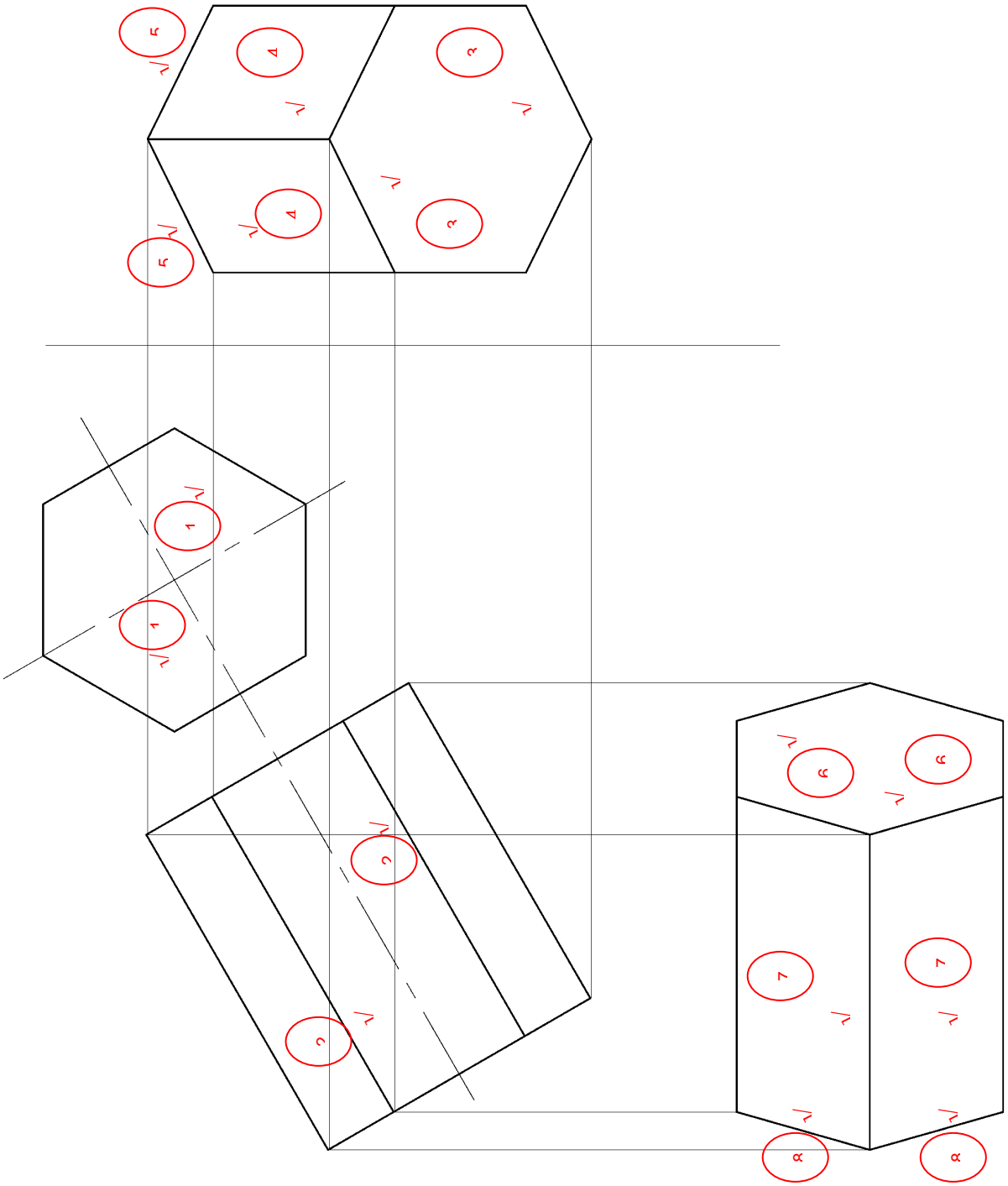
5	½ Mark for un-sectioned part (x2)	1 Mark
6	½ Mark for sectioning (x4)	2 Marks
7	½ Mark for holes (x2)	1 Mark
	TOTAL	**4 Marks**

Copyright reserved

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

QUESTION 7: PRISM AND PYRAMID



MARKING CRITERIA			
	Front	**Left**	**Top**
Correctness	2	3½	3½
Line work	2		
Accuracy	1		
TOTAL	**12**		

Downloaded from www.mycourses.co.za

Downloaded from www.mycourses.co.za

MARK ALLOCATION FOR CORRECTNESS – QUESTION 7

FV & AUX

1	½ Mark for FV (x2)	1 Mark
2	½ Mark for AUX VIEW (x2)	1 Mark
	TOTAL	**2 Marks**

LV

3	½ Mark for BASE (x2)	1 Mark
4	½ Mark for prism lines (x3)	1½ Marks
5	½ Mark for hidden base (x2)	1 Mark
	TOTAL	**3½ Marks**

TV

6	½ Mark for BASE (x2)	1 Mark
7	½ Mark for prism lines (x3)	1½ Marks
8	½ Mark for hidden base (x2)	1 Mark
	TOTAL	**3½ Marks**

Balance, border lines, layout, and neatness of a completed DRAWING SHEET: (7)

MARKING CRITERIA	
Balanced layout	3
Border lines	2
Layout and neatness	2
TOTAL	**7**

TOTAL: 100

Copyright reserved

Downloaded from www.mycourses.co.za