basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P2

MAY/JUNE 2026

MARKING GUIDELINES

MARKS: 100

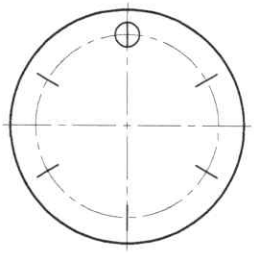
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ANSWERS

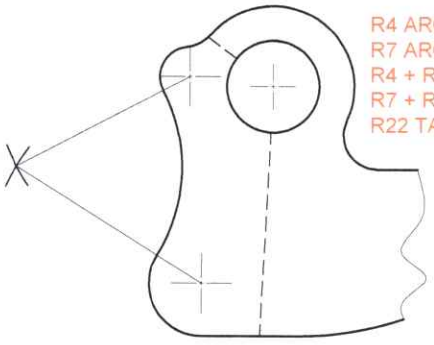
1	APPROVED DRAWINGS	1
2	CHECKED DRAWINGS	1
3	LBJ TRAILER DESIGN	1
4	STEEL	1
5	1 : 5	1
6	11 / ELEVEN	1
7	350 x 2 = 700	1
8	SECTIONAL FRONT VIEW	1
9	REVOLVED	1
10	MULTI-PLANE / OFFSET	1
11	INTERRUPTED VIEW	1
12	INDICATES A PART NOT PRESENT	1
13	CONVENTION OF SYMMETRY APPLIED	1
14	SQUARE ON A SHAFT	1
15	F: 11,2 G: 64	2
16	99°/100°/101°	1
17	33 + 4 + 0,55 (1) = 37,55 (1)	1
18	*See below*	3
19		4
20		5
	TOTAL	**30**

ANSWER 18



FREEHAND	0,5
PCD CHAIN LINE	1
ONE HOLE ONLY	0.5
5 x DIVISIONS	1
	3

ANSWER 19



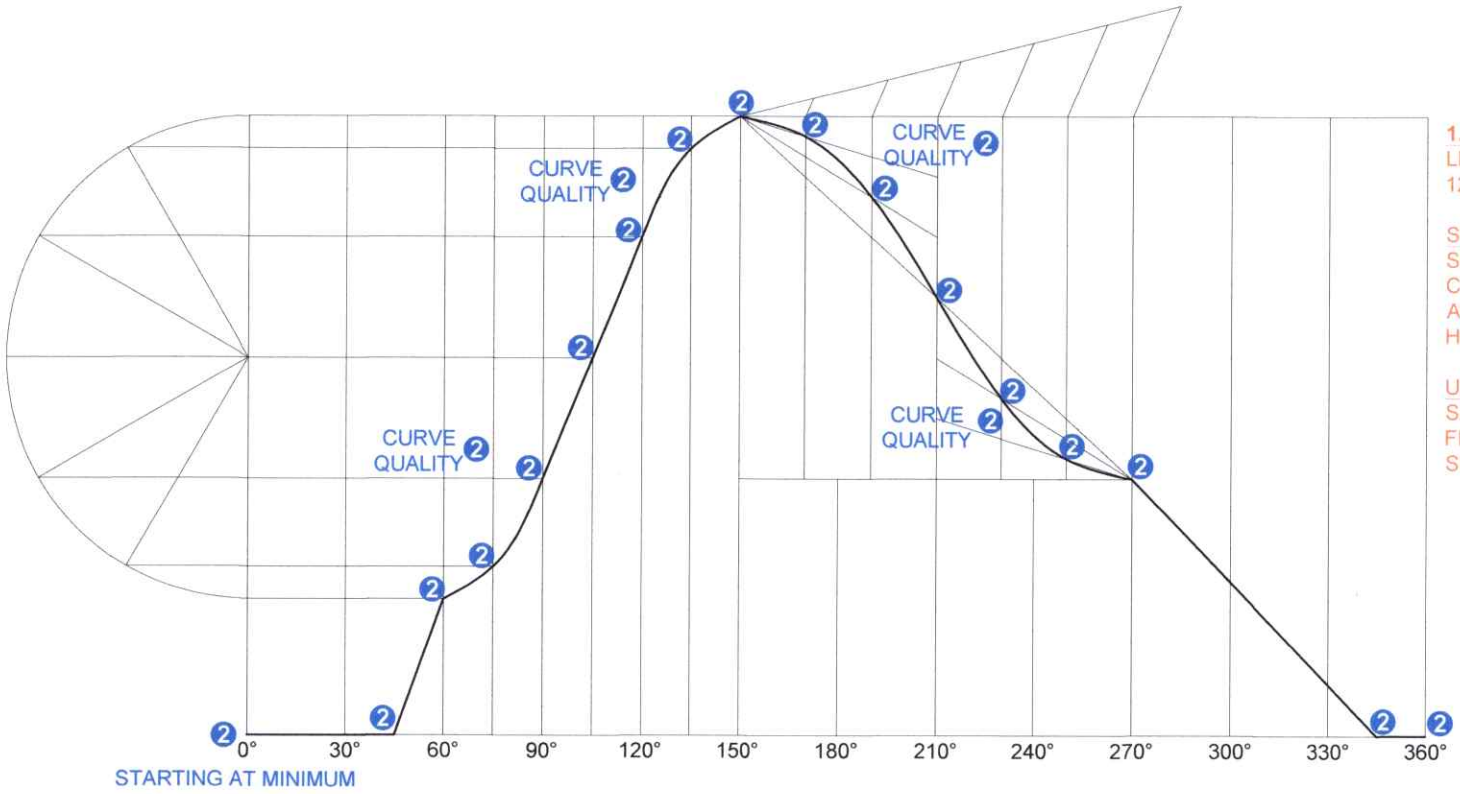
R4 ARC	0.5
R7 ARC	0.5
R4 + R22 = R26	1
R7 + R22 = R29	1
R22 TANGENTIAL ARC	1
	4

ANSWER 20

DESCRIPTION		
WELD ALL AROUND	8	✓
PITCH OF WELD	4	✓
FILLET WELD	7	✓
LENGTH OF WELD	3	✓
WELDING PROCESS	5	✓

PAPER 2 QUESTION 1
GRADE 12
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MARKING GUIDELINE

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DISPLACEMENT GRAPH 3
SCALE 156 = 360° 3

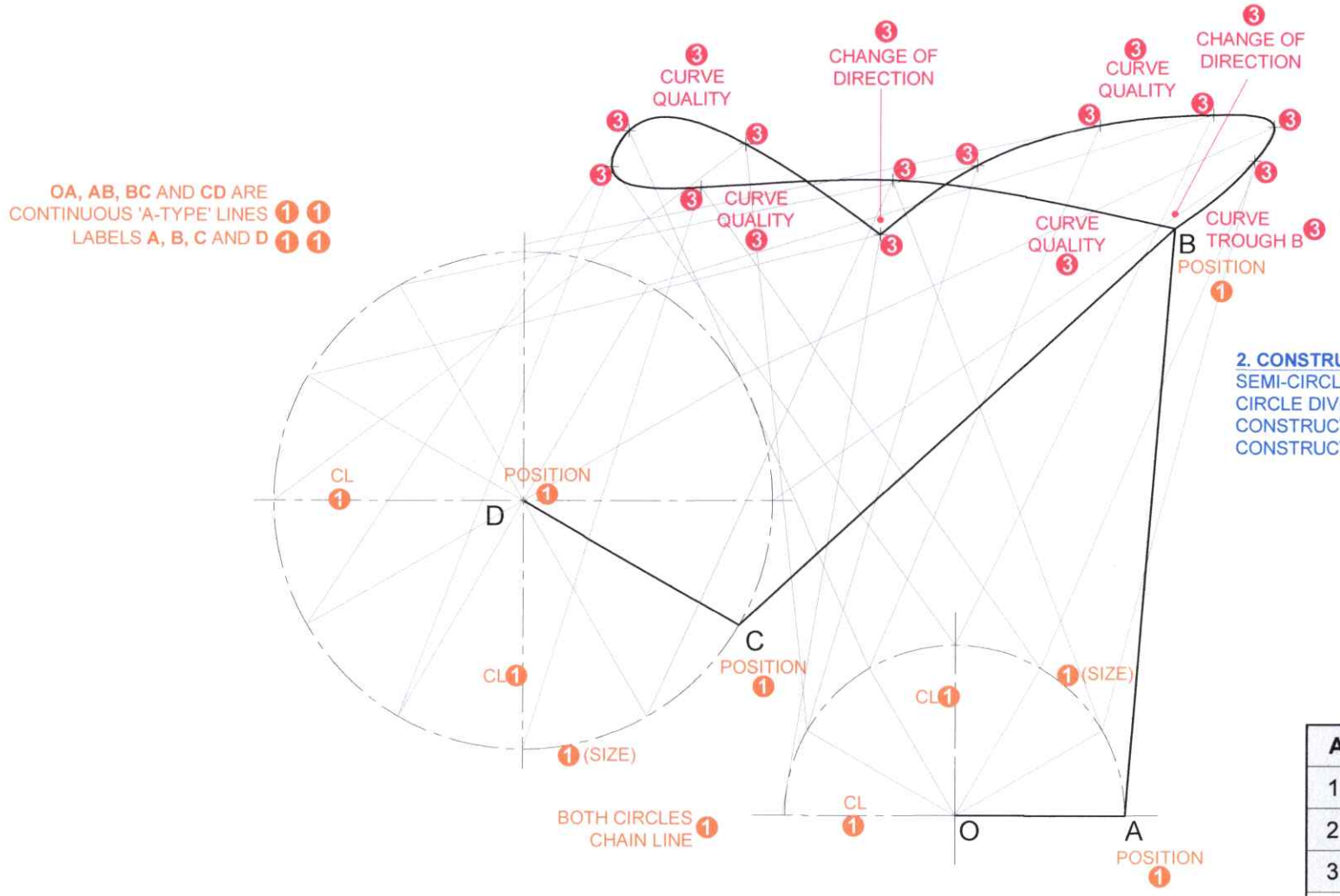
1. GRAPH CONSTRUCTION

LENGTH 156	1
12 EQUAL DIVISIONS	1
SIMPLE HARMONIC MOTION	
SEMI-CIRCLE IN CORRECT POSITION	0.5
CIRCLE DIVISION	0.5
ADDITIONAL 15° DIVISIONS	0.5
HORISONTAL PROJECTION	0.5
UNIFORM ACCELERATION AND RETARDATION	
SAME AMOUNT OF V & H DIVISIONS	1
FIRST HALF CONSTRUCTION	0.5
SECOND HALF CONSTRUCTION	0.5
TOTAL	6

ASSESSMENT CRITERIA 2.1		
1	GRAPH CONSTRUCTION	6
2	POINTS + CURVE	10 ½
3	LABELS	1
SUBTOTAL 2.1		**17 ½**

PAPER 2 QUESTION 2.1
GRADE 12
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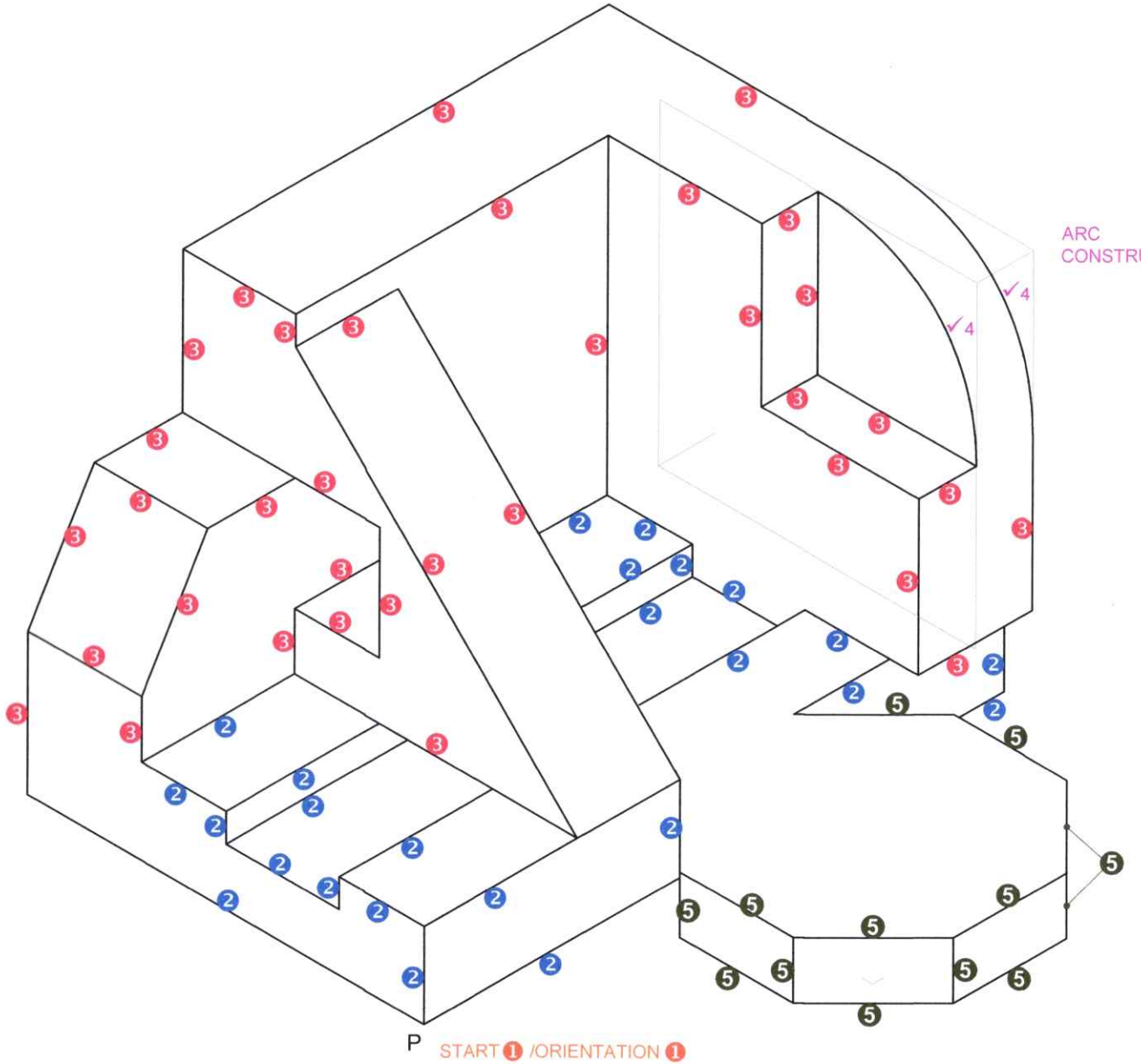
2. CONSTRUCTION

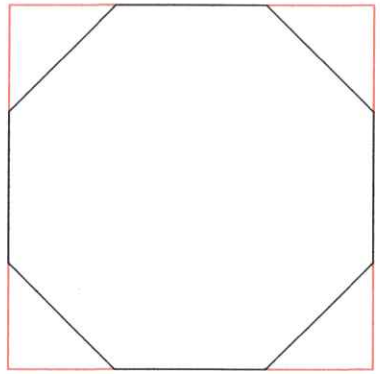
SEMI-CIRCLE DIVISION	0.5
CIRCLE DIVISION	0.5
CONSTRUCTION OF AB FROM A	2
CONSTRUCTION OF BC FROM C	2
	5

ASSESSMENT CRITERIA 2.2		
1	GIVEN	$7\frac{1}{2}$
2	CONSTRUCTION	5
3	POINTS + CURVE	9
SUBTOTAL 2.2		**$21\frac{1}{2}$**

PAPER 2 QUESTION 2.2
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60° CONSTRUCTION 1



ASSESSMENT CRITERIA		
1	PLACING + AUX. VIEW	2 ½
2	BASE	12 ½
3	UPPER PORTION	17 ½
4	ARCS + CONSTRUCTION	2 ½
5	OCTAGON	6
	TOTAL	**41**

PAPER 2 QUESTION 3
GRADE 12
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