

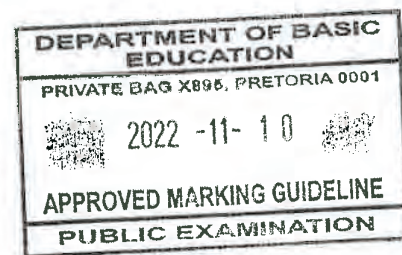
SA-STUDENT

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<https://sa-student.com/>

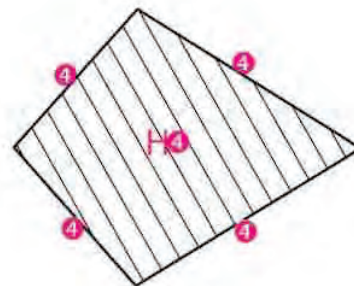
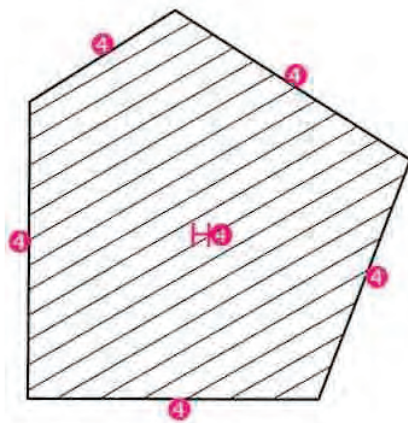
If it's your job to eat a frog, it's best
to do it first thing in the morning.
And If it's your job to eat two frogs,
it's best to eat the biggest one first.

Mark Twain



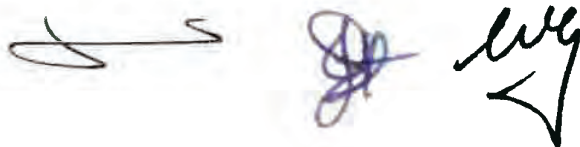


TRUE SHAPE
ANY RECOGNISED METHOD ✓4



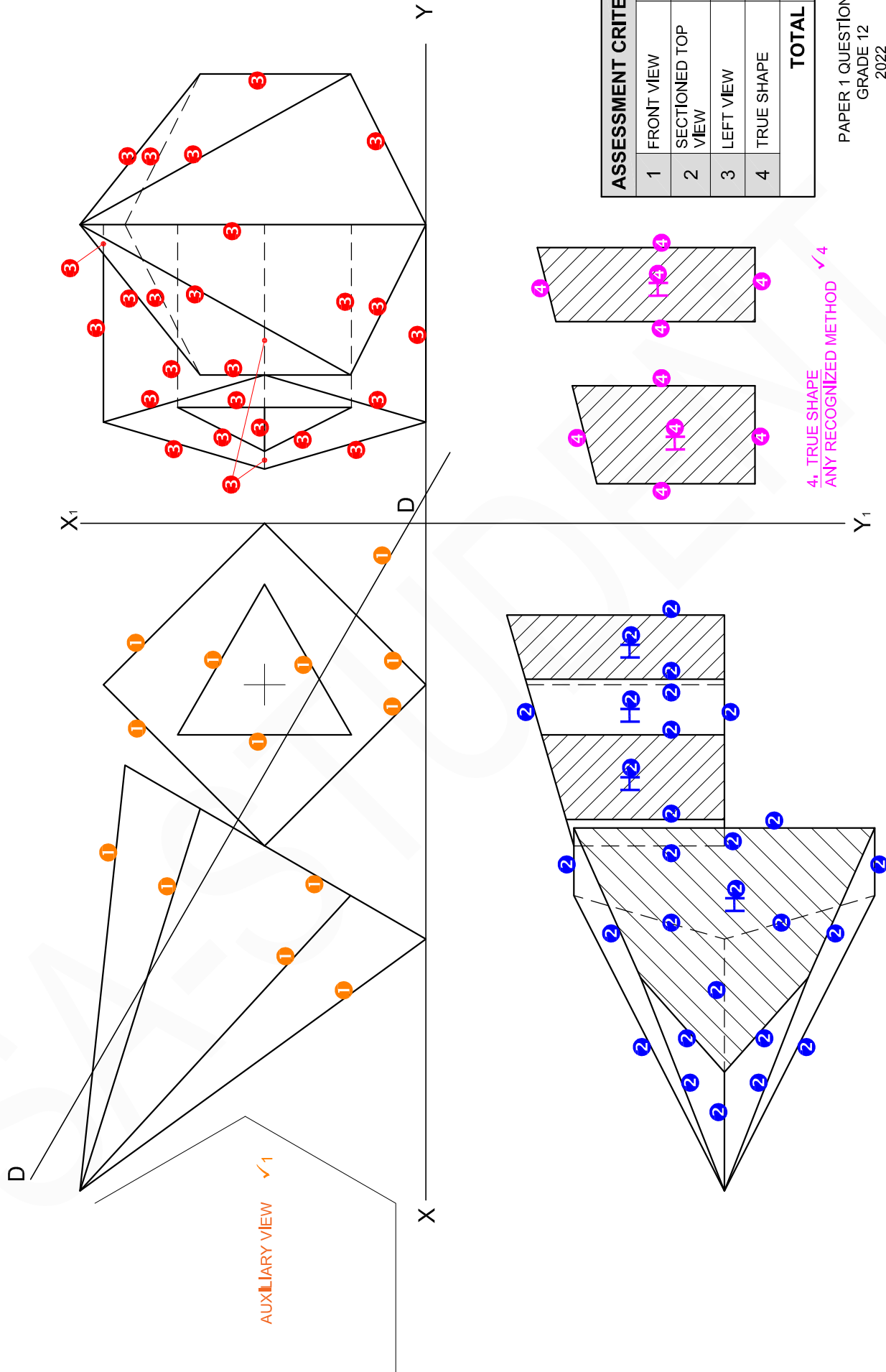
5. NOTE ON CORRECT HATCHING
DIFFERENT DIRECTIONS ✓5

AB



ASSESSMENT CRITERIA		
4	TRUE SHAPE	6 $\frac{1}{2}$
5	CORRECT HATCHING	1
SUBTOTAL		7 $\frac{1}{2}$

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2022
MARKING GUIDELINES



ASSESSMENT CRITERIA	
1	FRONT VIEW
2	SECTIONED TOP VIEW
3	LEFT VIEW
4	TRUE SHAPE
TOTAL	

7 ½

14

12 ½

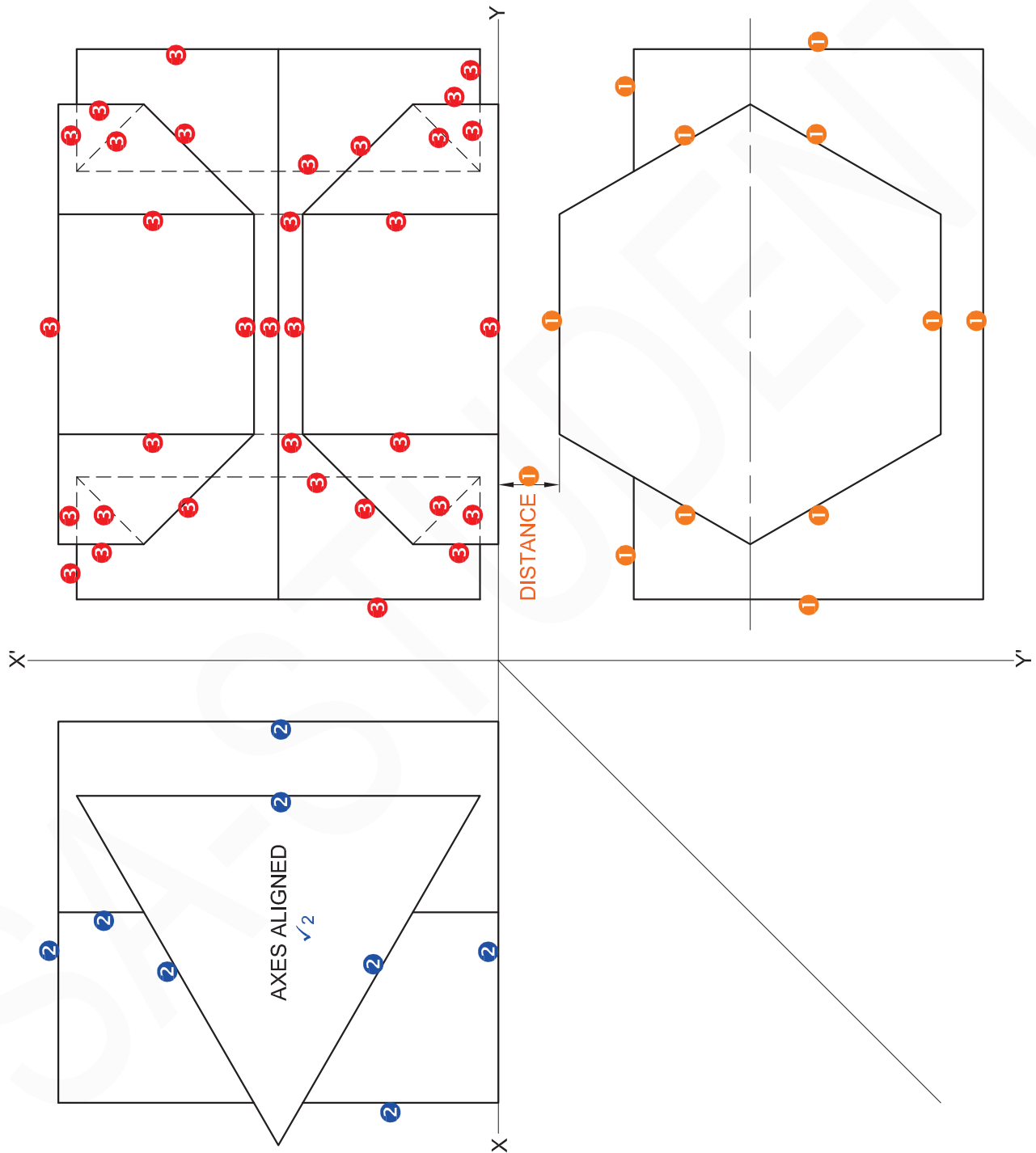
6

40

PAPER 1 QUESTION 2
GRADE 12
2022
MARKING GUIDELINES

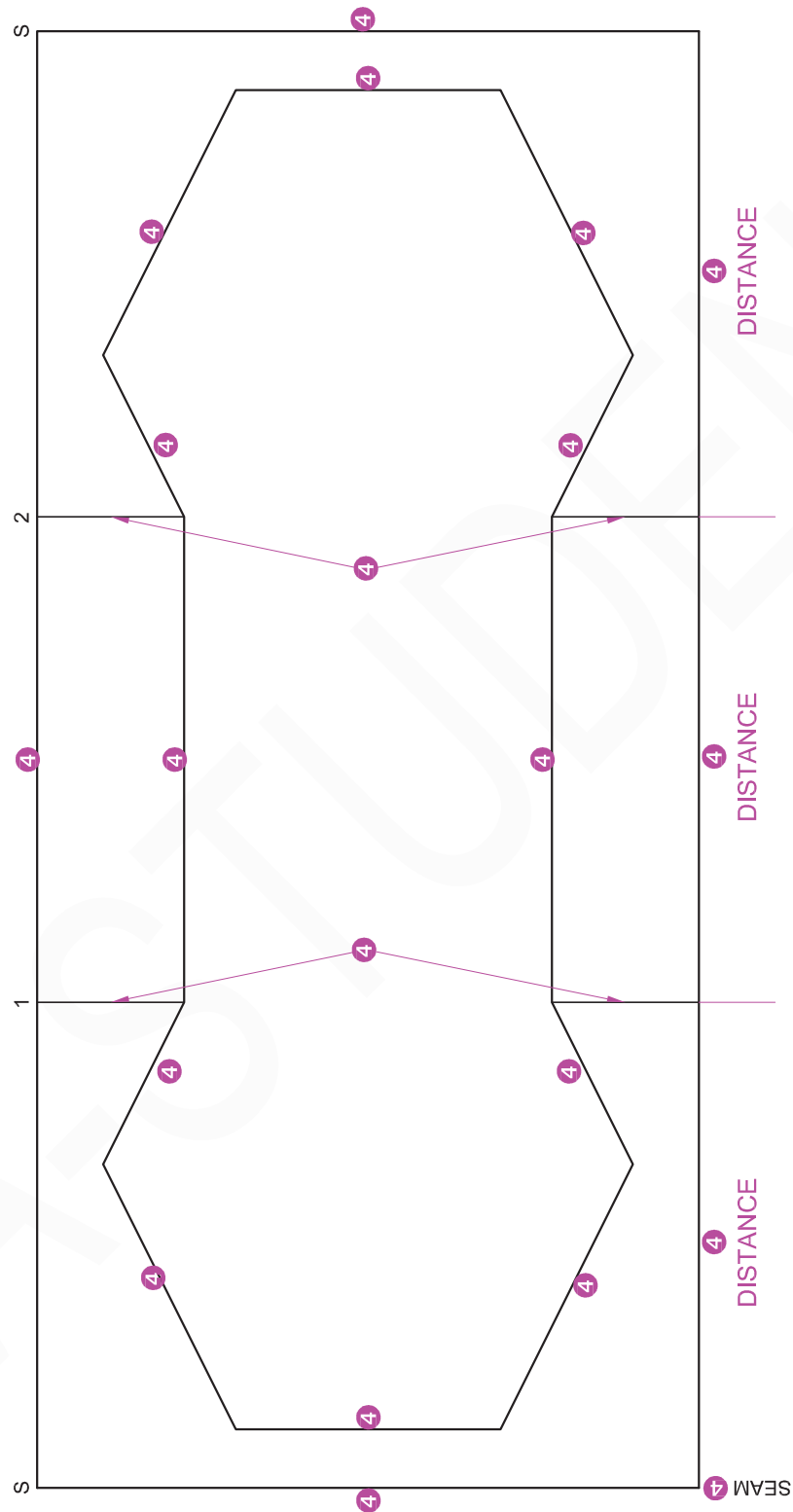
4. TRUE SHAPE
ANY RECOGNIZED METHOD ✓4

ASSESSMENT CRITERIA		
1	TOP VIEW	6
2	RIGHT VIEW	5
3	FRONT VIEW	16 $\frac{1}{2}$



PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2021
MARKING GUIDELINE

ASSESSMENT CRITERIA		
4	DEVELOPMENT	10 $\frac{1}{2}$
TOTAL		38



PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2021
MARKING GUIDELINE

AUXILIARY VIEW:
 HEXAGON 1
 CIRCLE WITH DIVISIONS 1
 TOTAL 2

ANY RECOGNIZED METHOD CAN BE USED

ASSESSMENT CRITERIA

ASSESSMENT CRITERIA		
1	AUXILIARY VIEW	2
2	FRONT VIEW	5
3	SECTIONAL TOP VIEW	16
4	RIGHT VIEW	13
TOTAL		36

PAPER 1 QUESTION 2
 GRADE 12
 2021
 MARKING GUIDELINES

ASSESSMENT CRITERIA

1	FRONT VIEW	7½
2	SECTIONAL TOP VIEW + CONSTRUCTION	13½
3	SECTIONAL RIGHT VIEW	11½
4	TRUE SHAPE	5½
TOTAL		38

2. CONSTRUCTION

HEXAGON	1
ROTATION	1
TOTAL	2

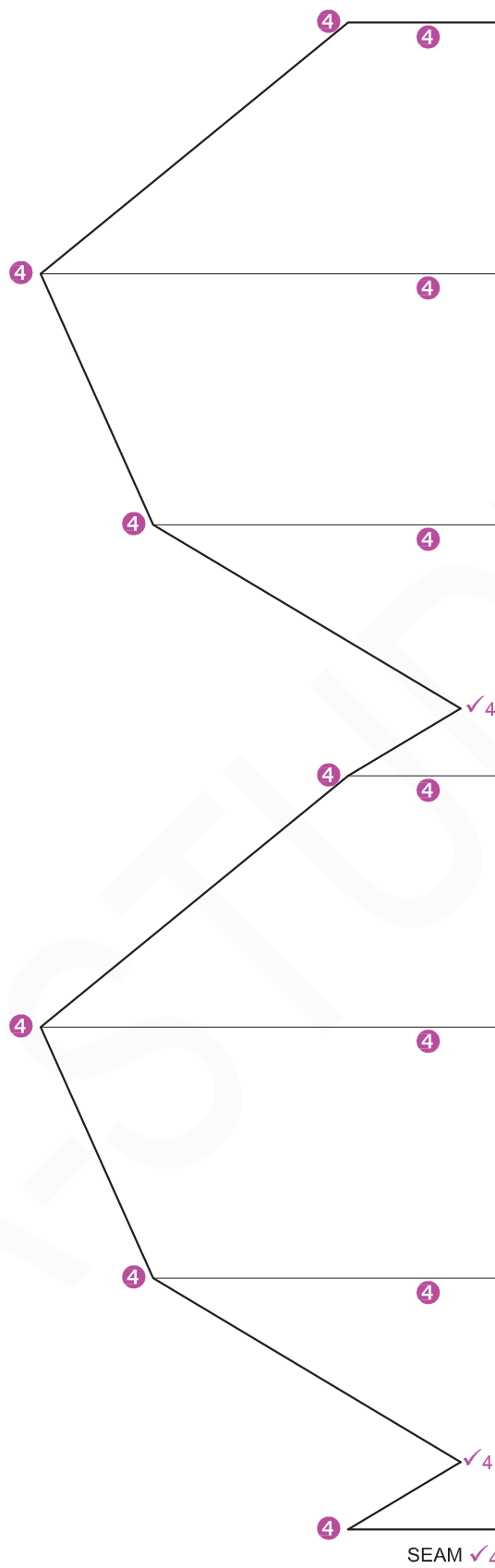
4. TRUE SHAPE
ANY RECOGNIZED METHOD 1

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2019
MARKING GUIDELINES

Engineering drawing showing three views of a hexagonal prism. The top view (left) is a regular hexagon with a vertical center line and a horizontal center line, labeled "ROTATION OF HEXAGON" with a checkmark and "1". The front view (right) is a rectangle with a horizontal center line, labeled "1". The side view (bottom) is a rectangle with a vertical center line, labeled "2". The drawing is marked with red "3's and blue "2's. The axes are labeled X, Y, X', and Y'.

ASSESSMENT CRITERIA	
1	TOP VIEW
2	RIGHT VIEW
3	FRONT VIEW
4	DEVELOPMENT
TOTAL	

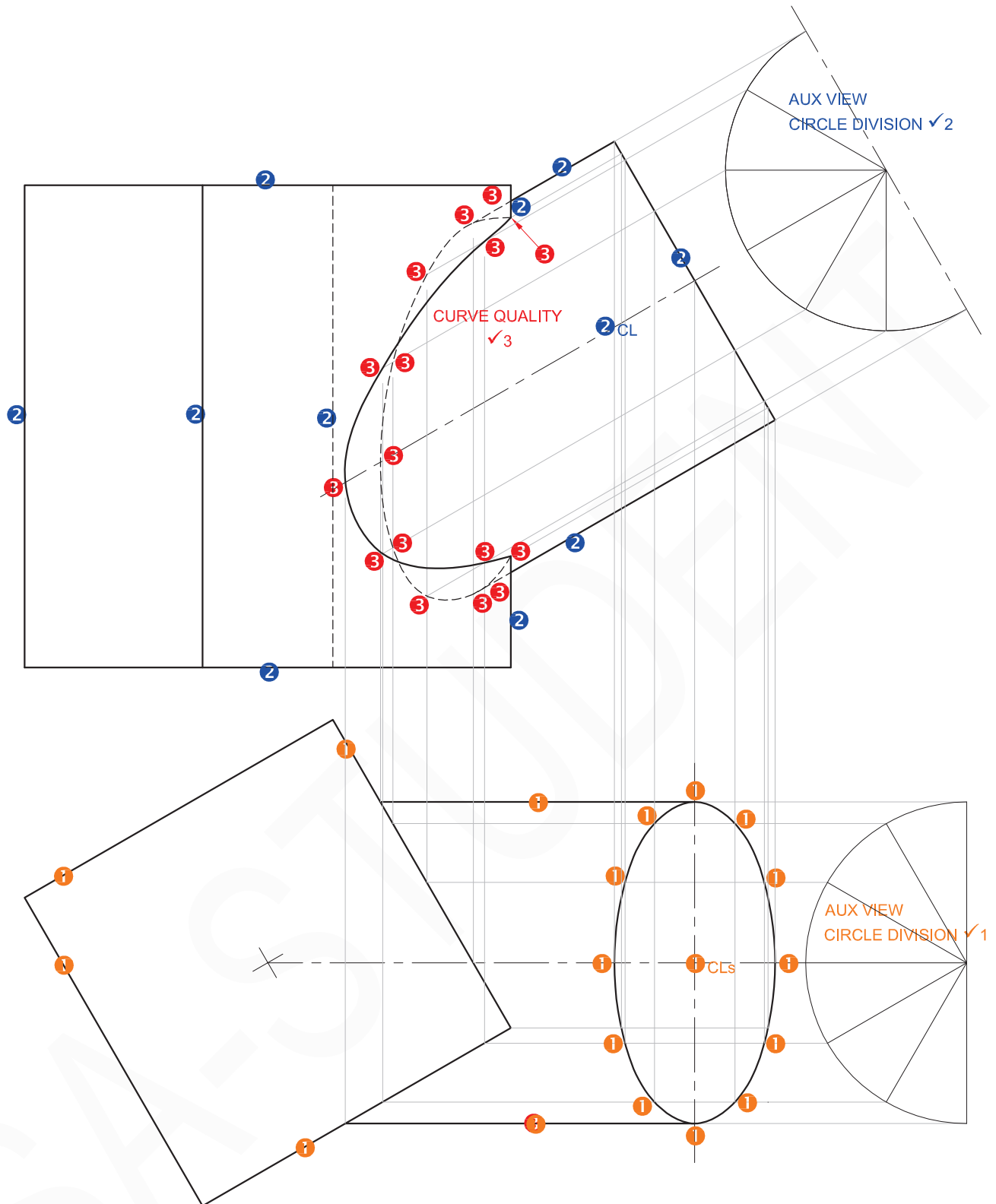
PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2019
MARKING GUIDELINES



✓ 4 SIX EQUAL SPACES

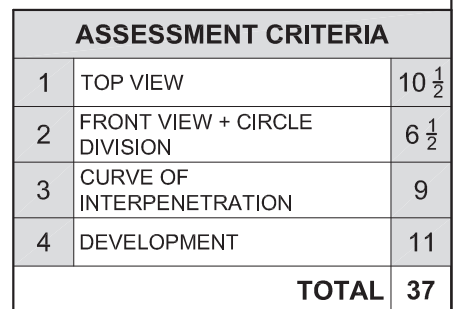
✓ 4 BASE LINE

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2019
MARKING GUIDELINES



NOTE:
THE DEVELOPMENT AND
ASSESSMENT TABLE IS ON
PAGE 4

APPROVED
PAPER 1 QUESTION 2
GRADE 12
SC/NSC 2019
MARKING GUIDELINES

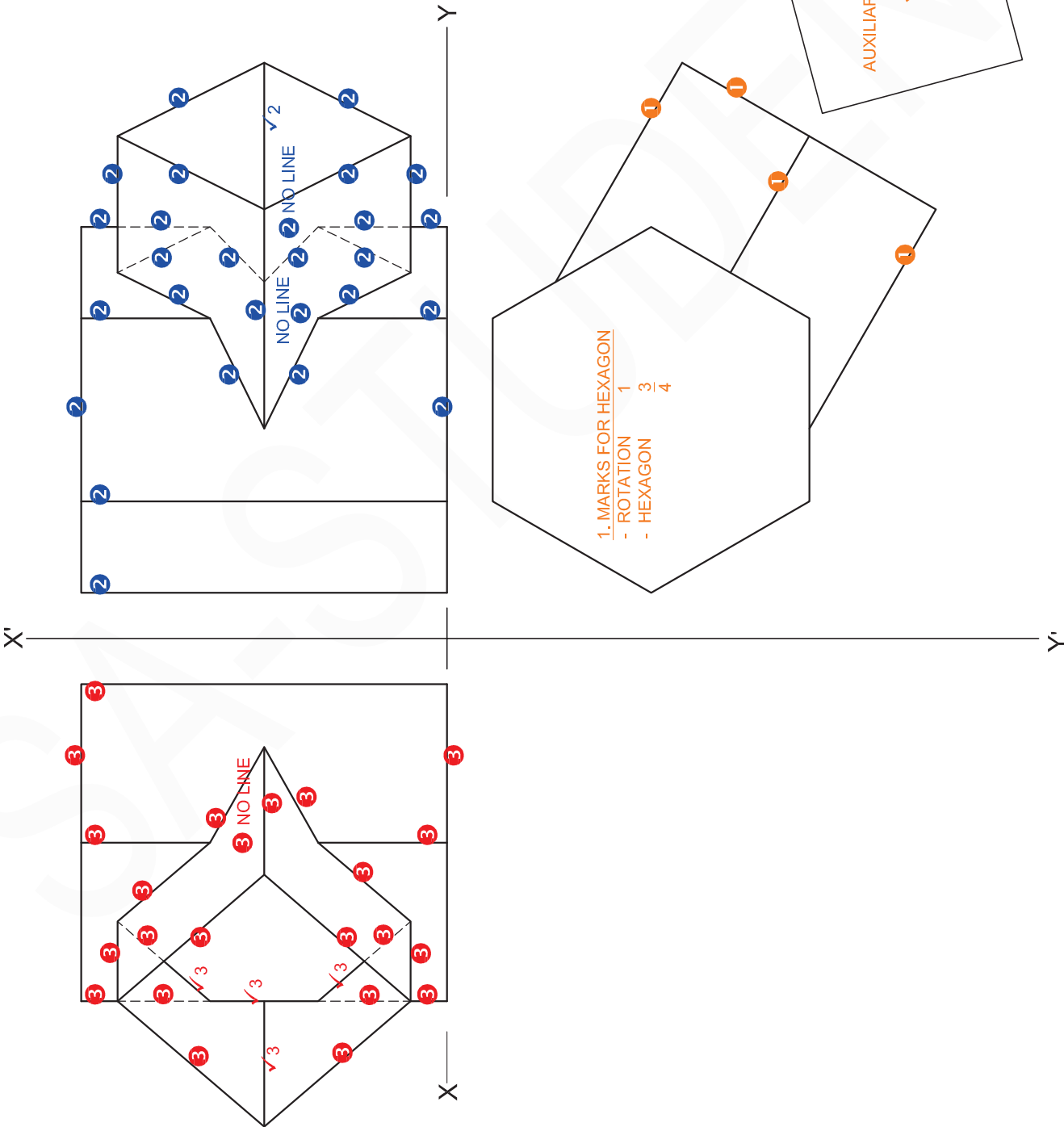


Please turn over

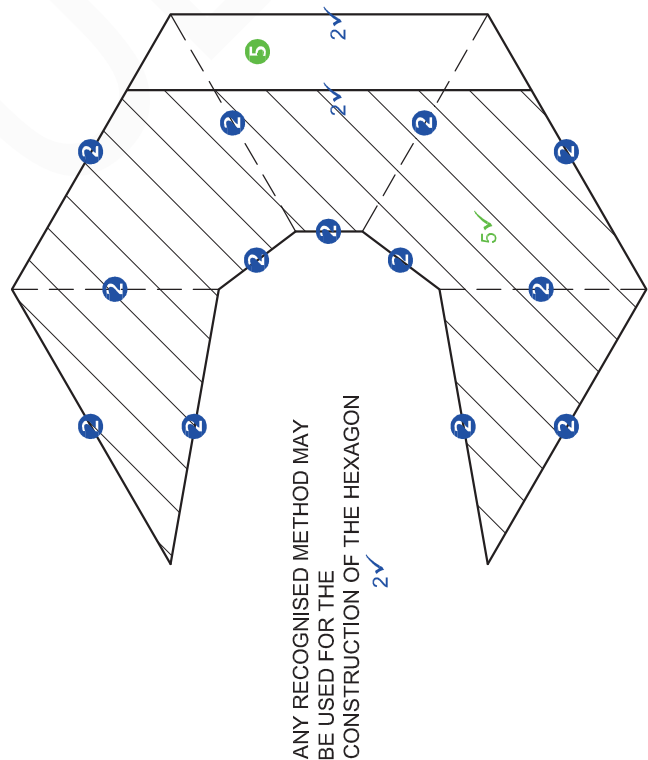
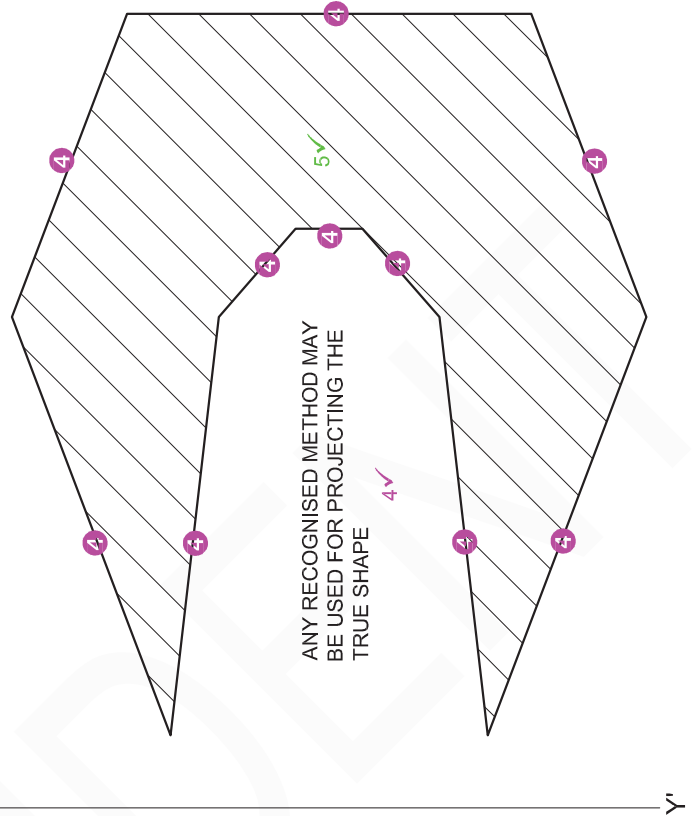
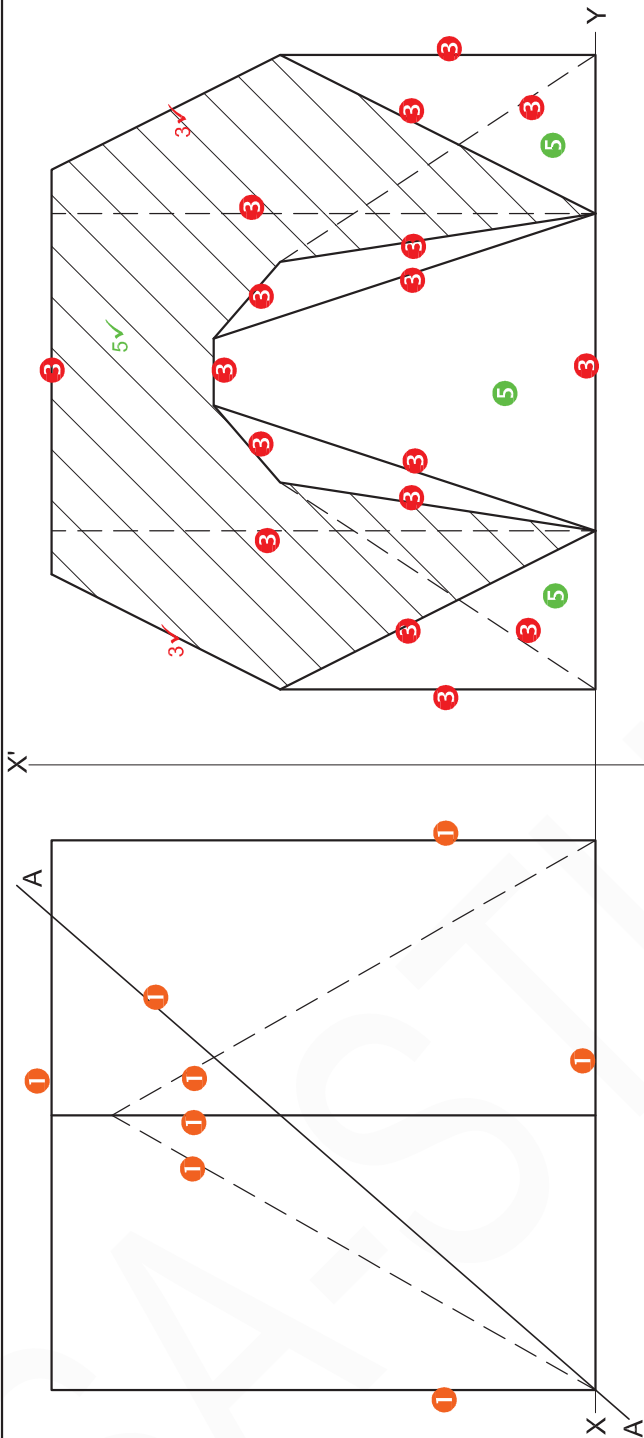
5. HATCHING MARK ALLOCATION	1
- PRISM	1
- PYRAMID	1
- DIFFERENT DIRECTIONS	1
- ANY RECOGNIZED	1
METHOD FOR TRUE SHAPE	1
TOTAL	2

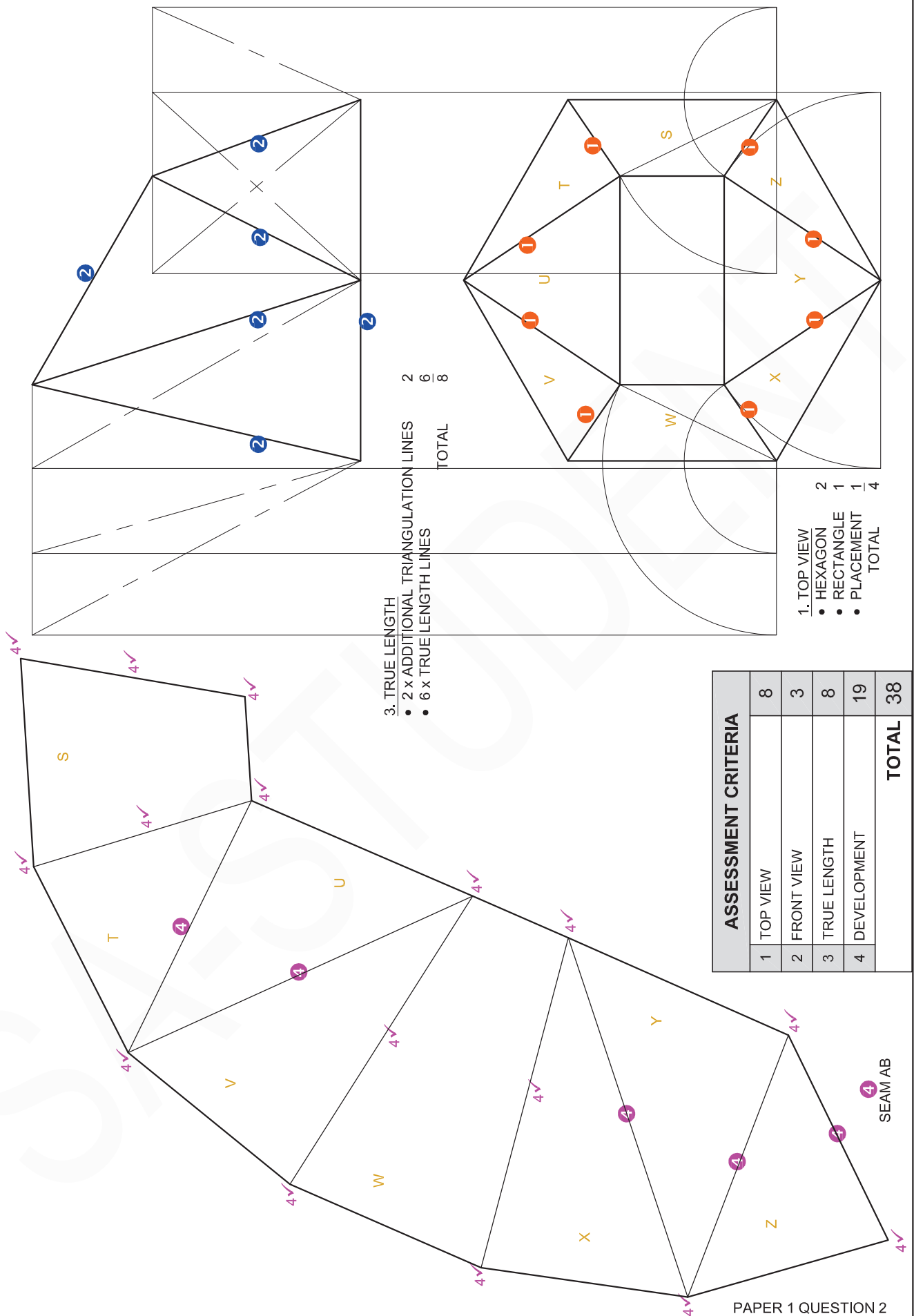
PAPER 1 QUESTION 2
GRADE 12
SCE 2018
MARKING GUIDELINES

ASSESSMENT CRITERIA		
1	TOP VIEW	7
2	FRONT VIEW	14 ¹ / ₂
3	RIGHT VIEW	15 ¹ / ₂
TOTAL		37

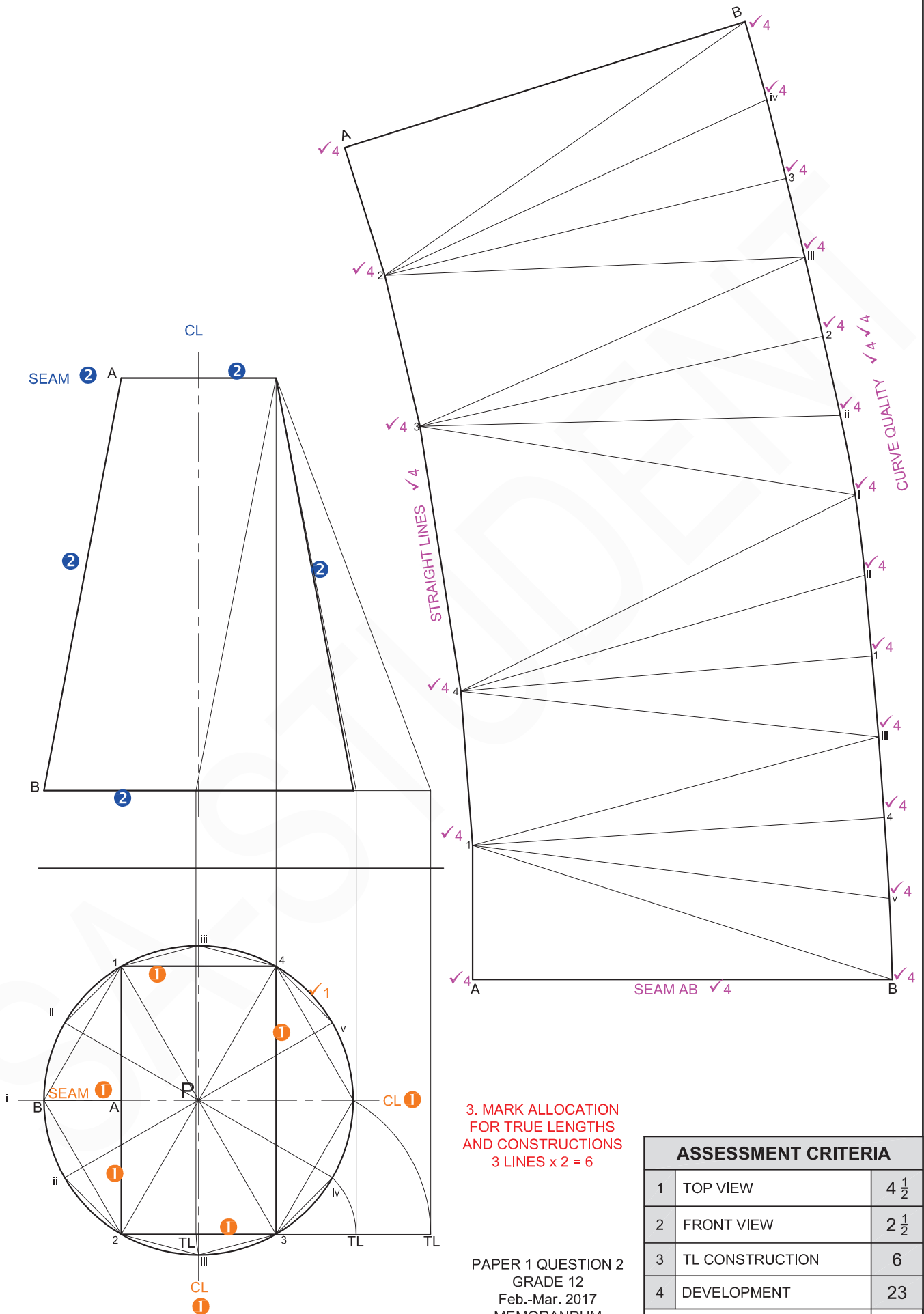


ASSESSMENT CRITERIA	
1 FRONT VIEW	4
2 SECTIONAL TOP VIEW	9½
3 SECTIONAL LEFT VIEW	10½
4 TRUE SHAPE	6
5 HATCHING	5
TOTAL	35





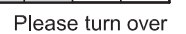
PAPER 1 QUESTION 2
 GRADE 12
 SSE 2017
 MARKING GUIDELINES



3. MARK ALLOCATION
FOR TRUE LENGTHS
AND CONSTRUCTIONS
3 LINES x 2 = 6

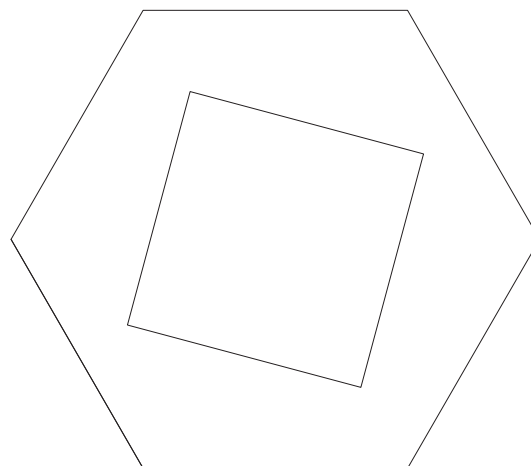
PAPER 1 QUESTION 2
GRADE 12
Feb.-Mar. 2017
MEMORANDUM

ASSESSMENT CRITERIA		
1	TOP VIEW	4 $\frac{1}{2}$
2	FRONT VIEW	2 $\frac{1}{2}$
3	TL CONSTRUCTION	6
4	DEVELOPMENT	23
TOTAL		36



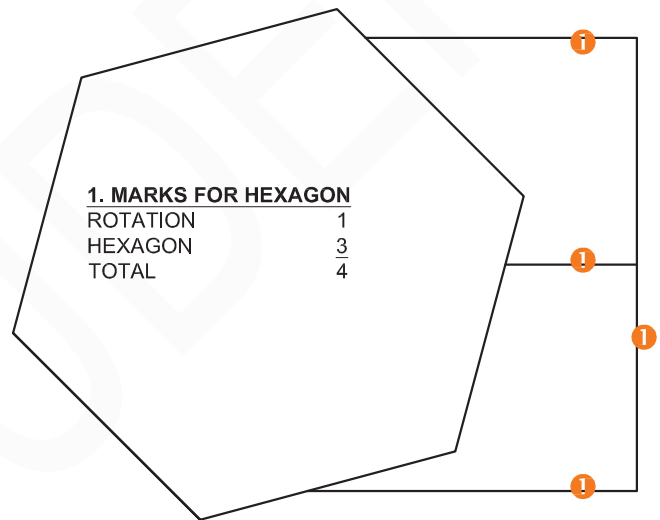
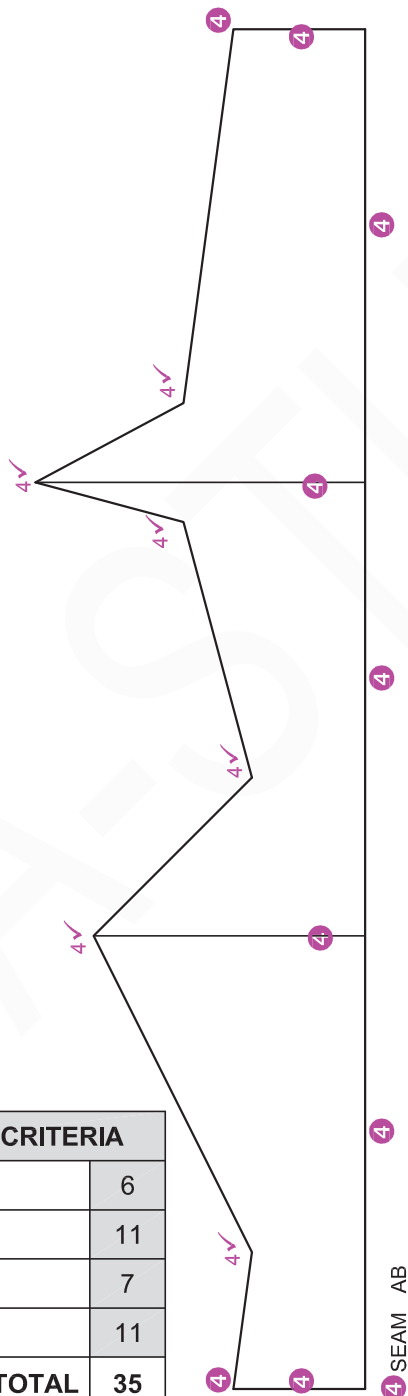
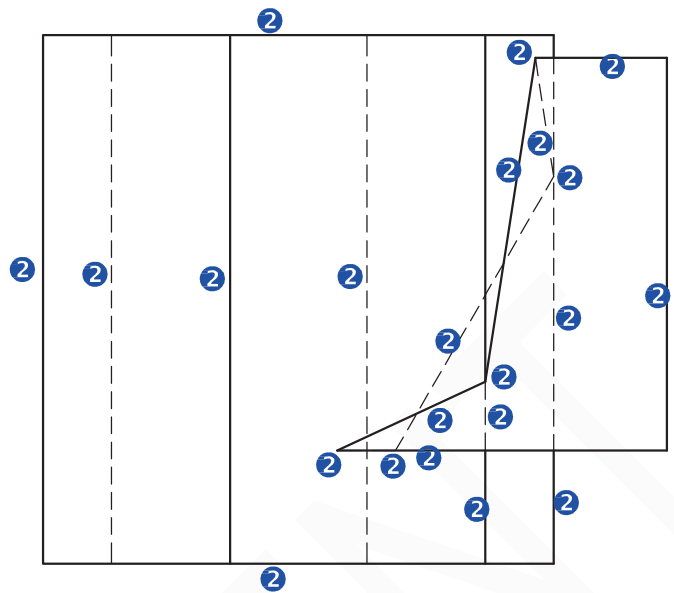
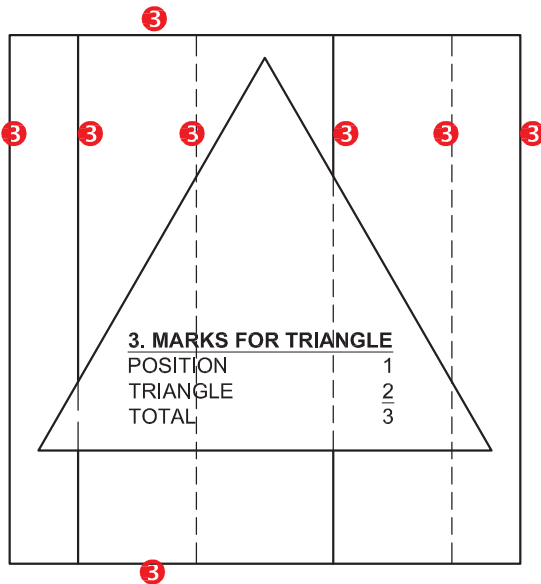
PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2016
MEMORANDUM

1. POLYGON CONSTRUCTION	
• TRIANGLE	1
• HEXAGON	1
• HEXAGON ROTATION	1
TOTAL	3



✓✓✓✓

PAPER 1 QUESTION 2
GRADE 12
Feb.-Mar.2016
MEMORANDUM

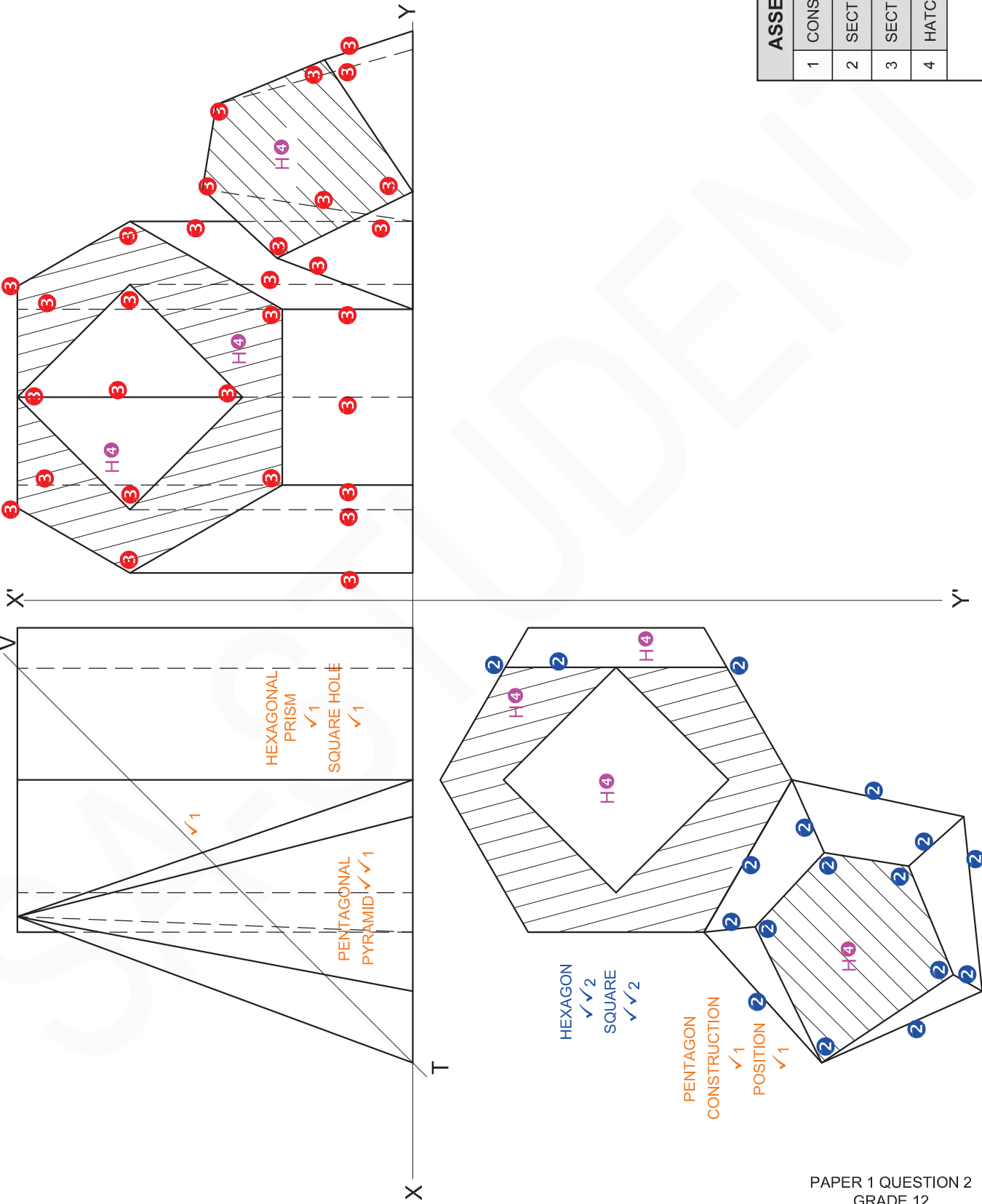


ASSESSMENT CRITERIA		
1	TOP VIEW	6
2	FRONT VIEW	11
3	RIGHT VIEW	7
4	DEVELOPMENT	11
TOTAL		35

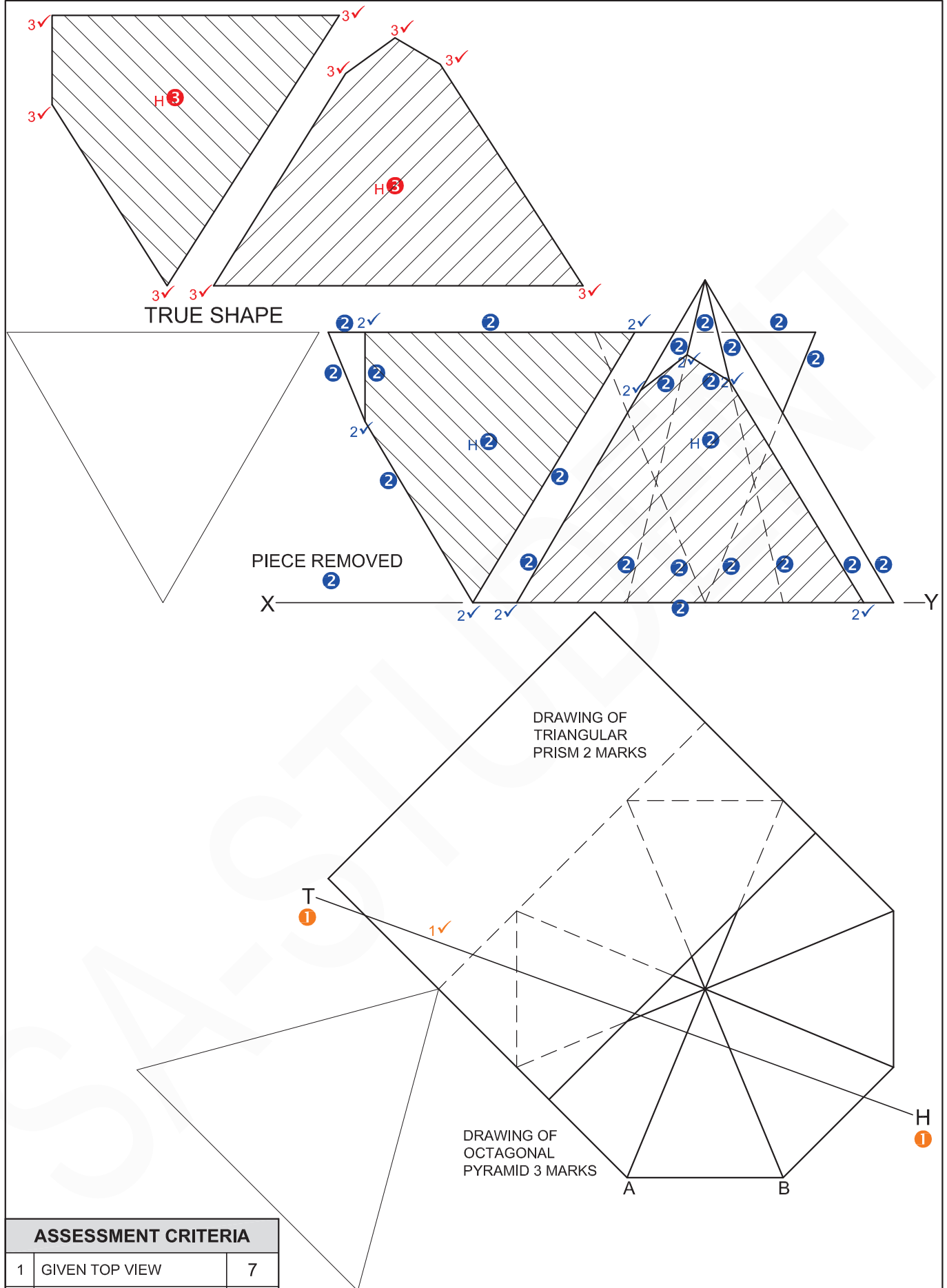
PAPER 1 QUESTION 2
GRADE 12
November 2015
MEMORANDUM

ASSESSMENT CRITERIA		
1	FRONT AND TOP VIEW	11
2	TL CONSTRUCTION	8
3	DEVELOPMENT	17
TOTAL		36

PAPER 1 QUESTION 2
GRADE 12
Feb.-Mar. 2015
MEMORANDUM

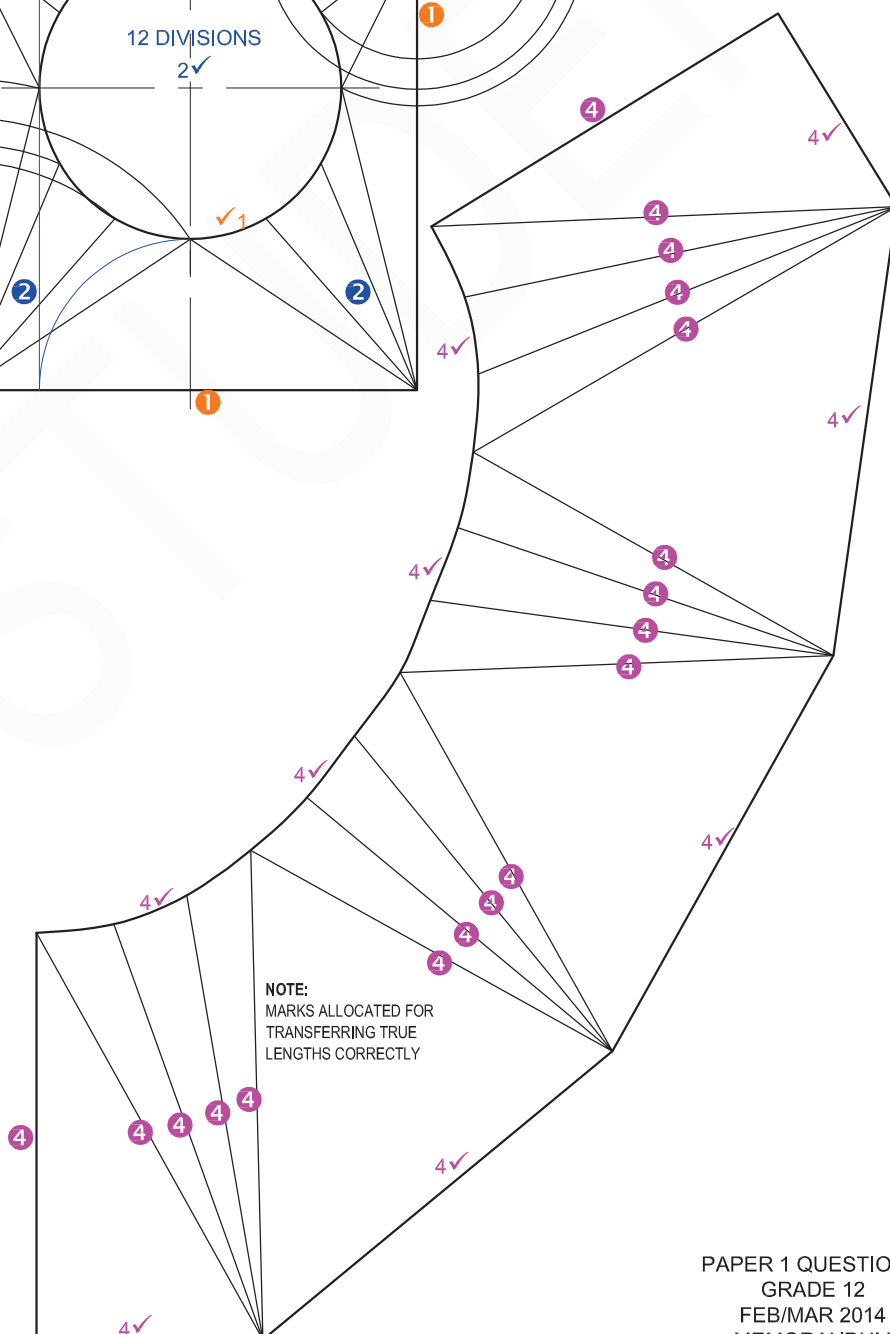
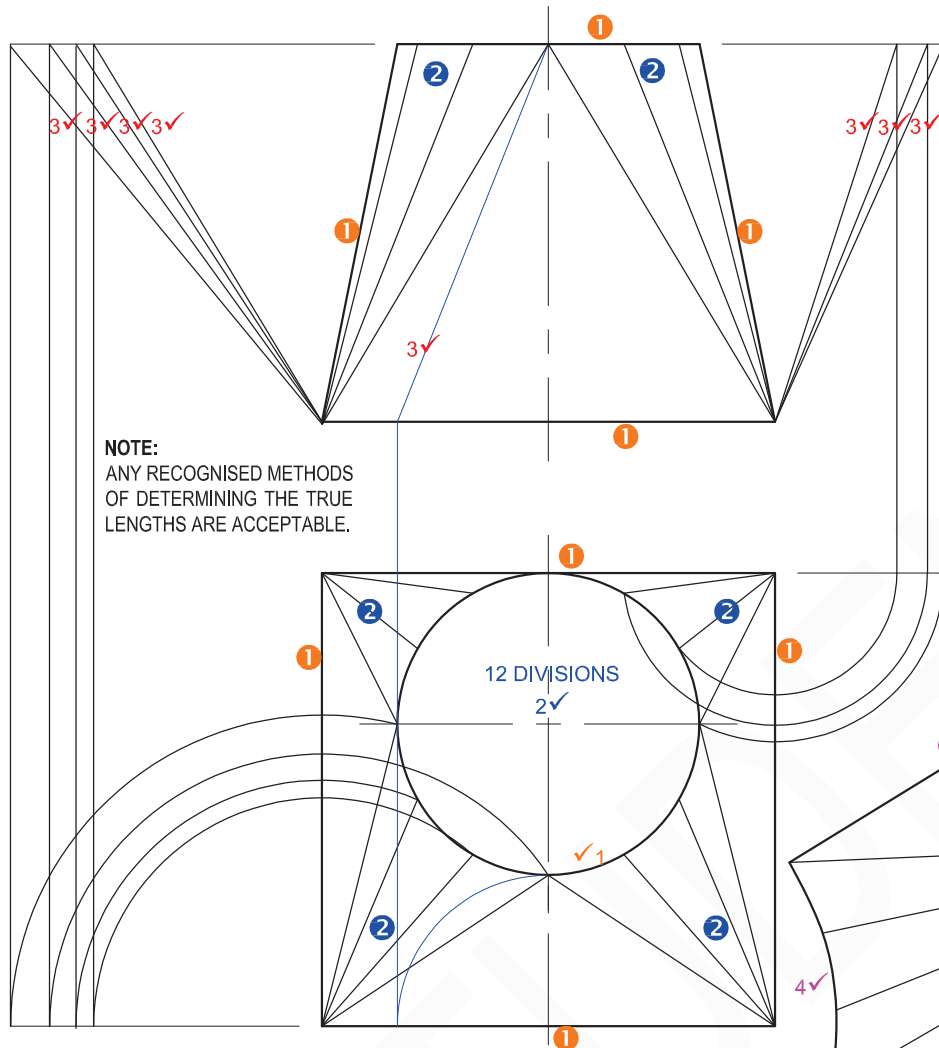


ASSESSMENT CRITERIA	
1	CONST. + FRONT VIEW
2	SECTIONAL TOP VIEW
3	SECTIONAL LEFT VIEW
4	HATCHING
TOTAL	



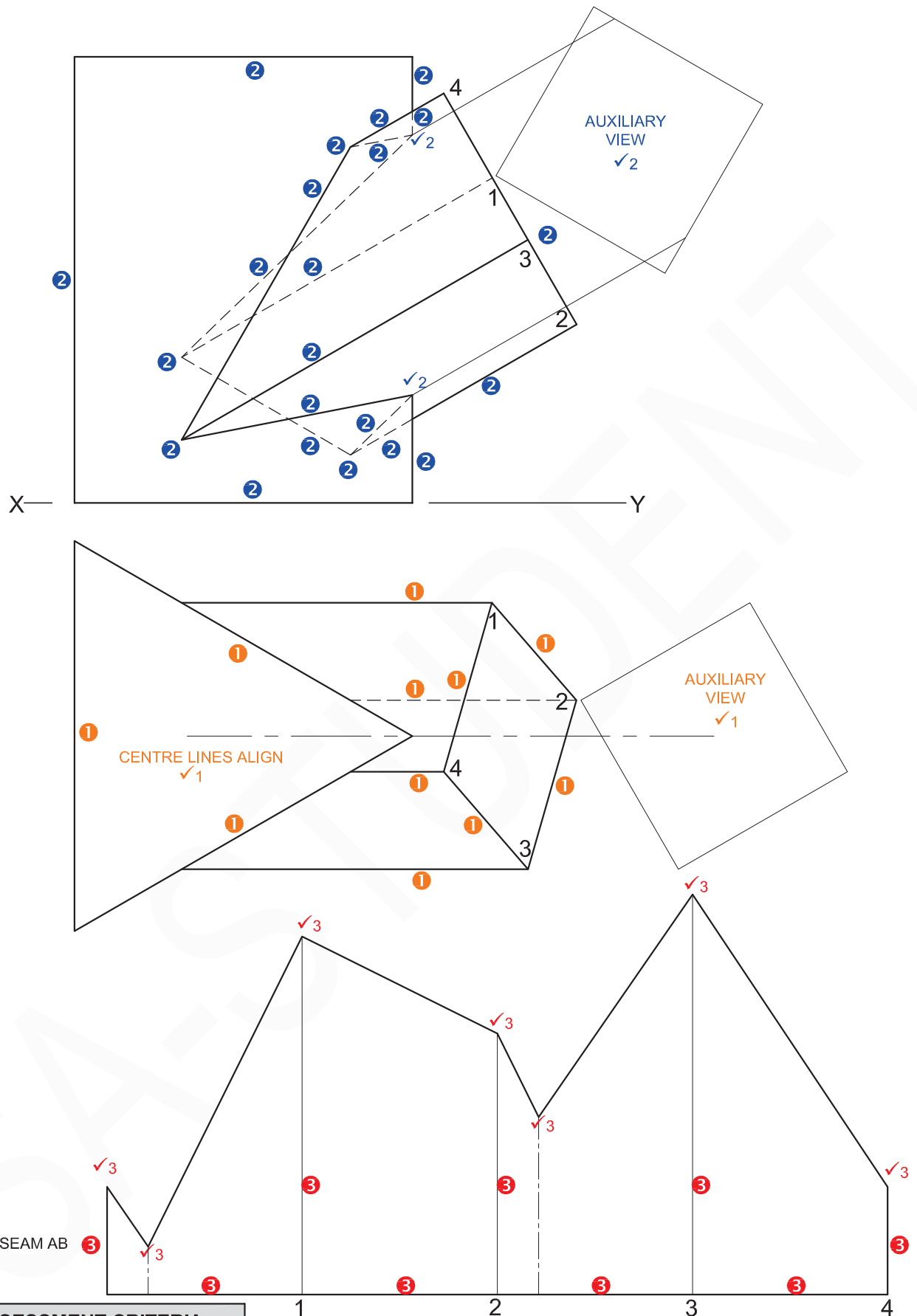
ASSESSMENT CRITERIA		
1	GIVEN TOP VIEW	7
2	FRONT VIEW	21
3	TRUE SHAPE	10
TOTAL		38

PAPER 1 QUESTION 2
GRADE 12
EXEMPLAR 2014
MEMORANDUM

**ASSESSMENT CRITERIA**

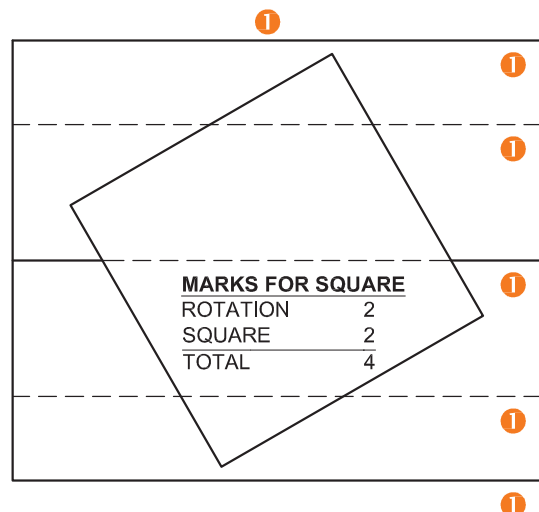
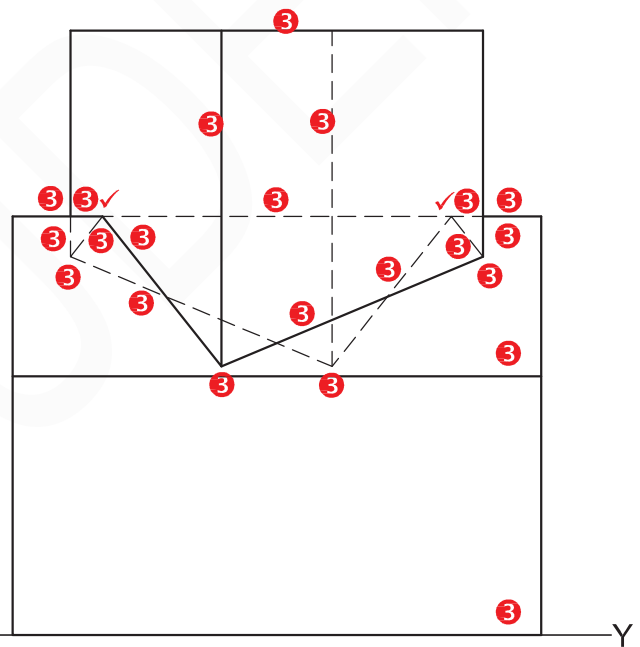
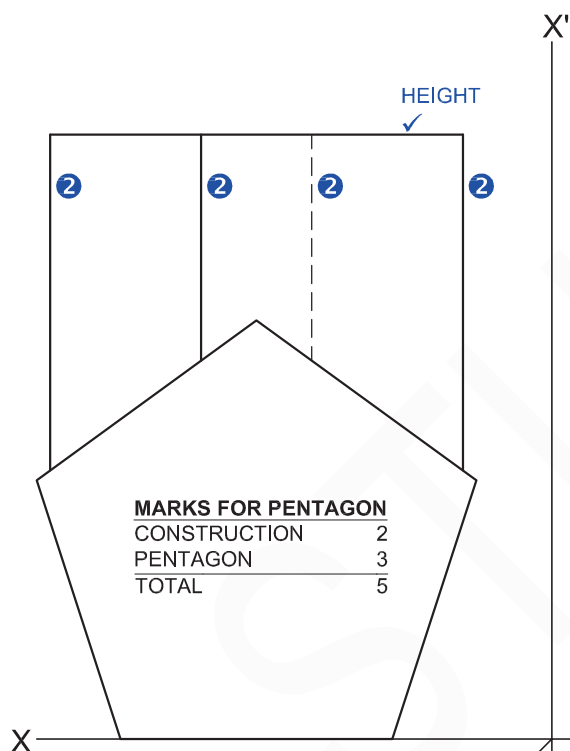
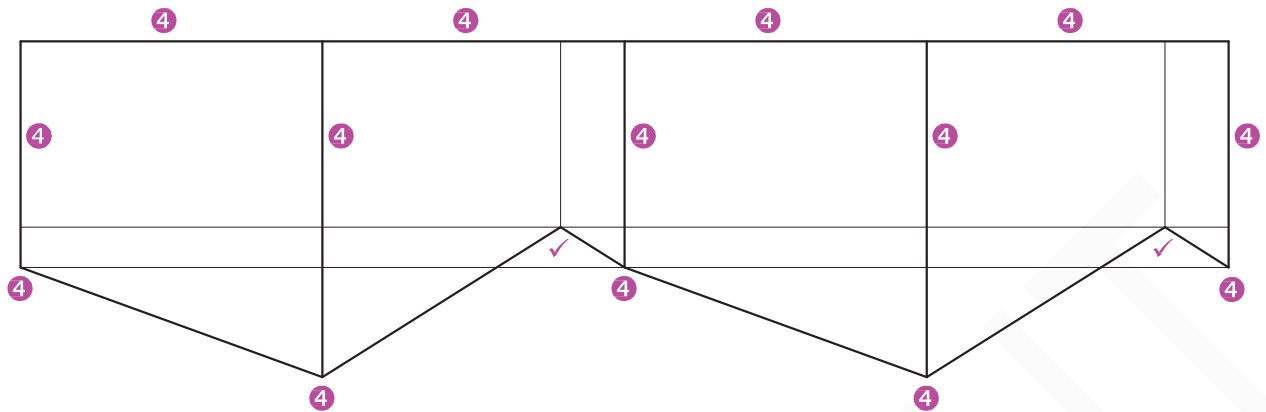
1	GIVEN	5
2	CONSTRUCTION	4
3	TRUE LENGTHS	8
4	DEVELOPMENT	18
TOTAL		35

PAPER 1 QUESTION 2
GRADE 12
FEB/MAR 2014
MEMORANDUM



ASSESSMENT CRITERIA		
1	TOP VIEW	7½
2	FRONT VIEW	14
3	DEVELOPMENT	11½
TOTAL		33

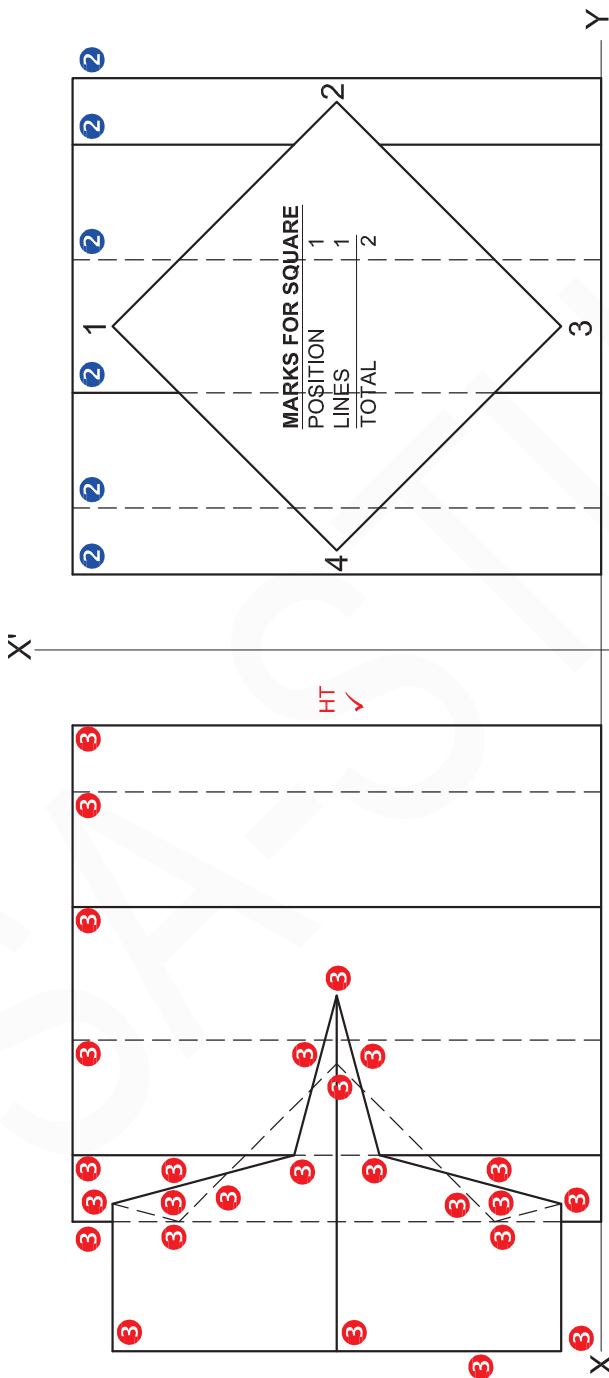
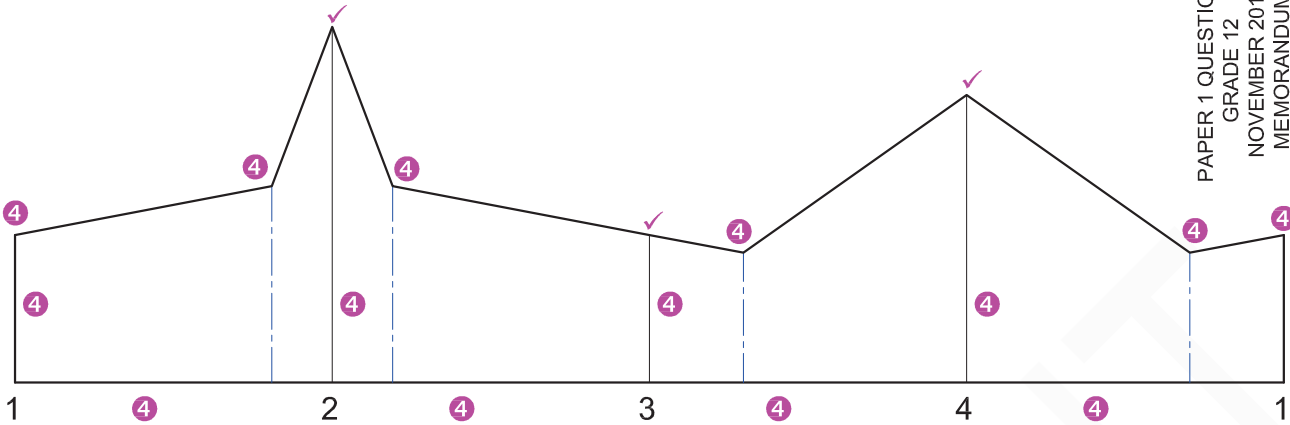
PAPER 1 QUESTION 2
GRADE 12
November 2013
MEMORANDUM



ASSESSMENT CRITERIA		
1	TOP VIEW	7
2	RIGHT VIEW	8
3	FRONT VIEW	13
4	DEVELOPMENT	9
TOTAL		37

PAPER 1 QUESTION 2
GRADE 12
FEB/MAR 2013
MEMORANDUM

PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2012
MEMORANDUM



ASSESSMENT CRITERIA	
1	TOP VIEW
2	LEFT VIEW
3	FRONT VIEW
4	DEVELOPMENT
TOTAL	

NOTE:

ALL RECOGNISED METHODS OF
DETERMINING THE TRUE LENGTH
ARE ACCEPTABLE.

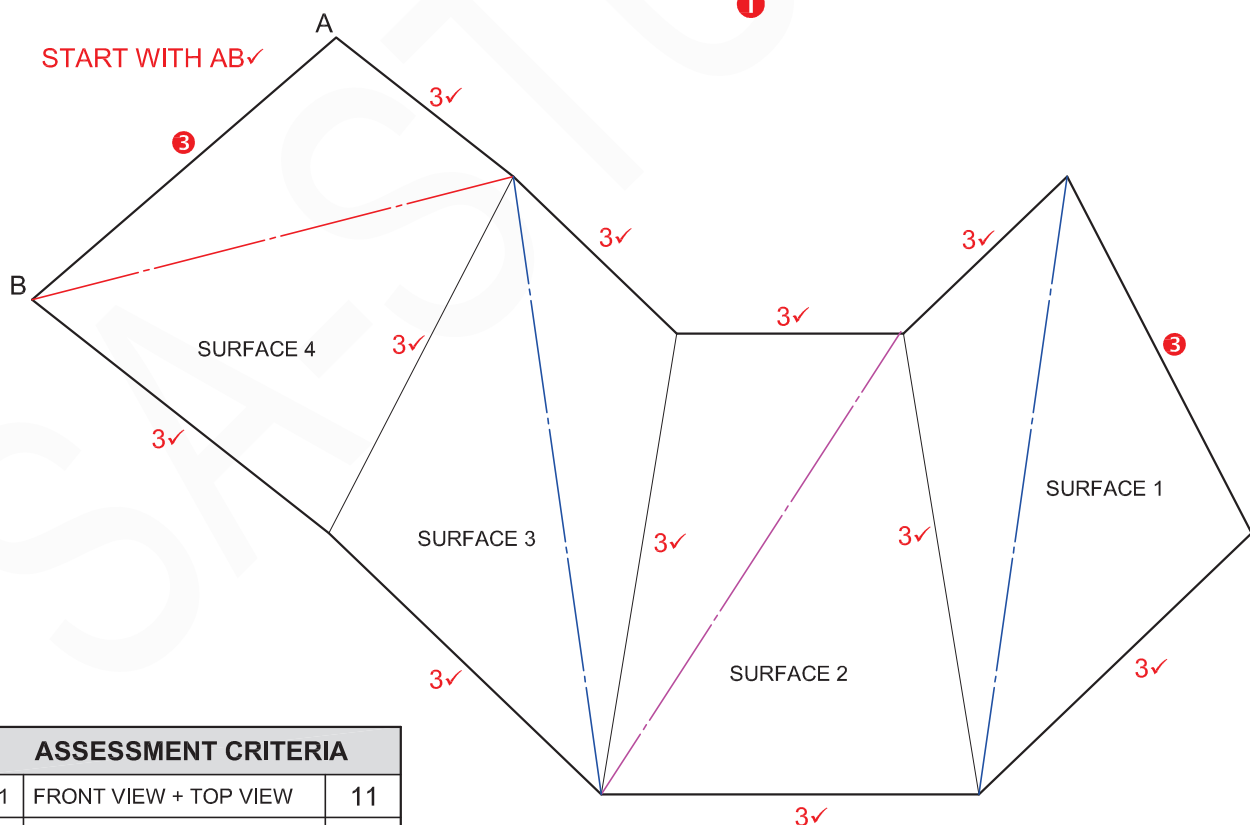
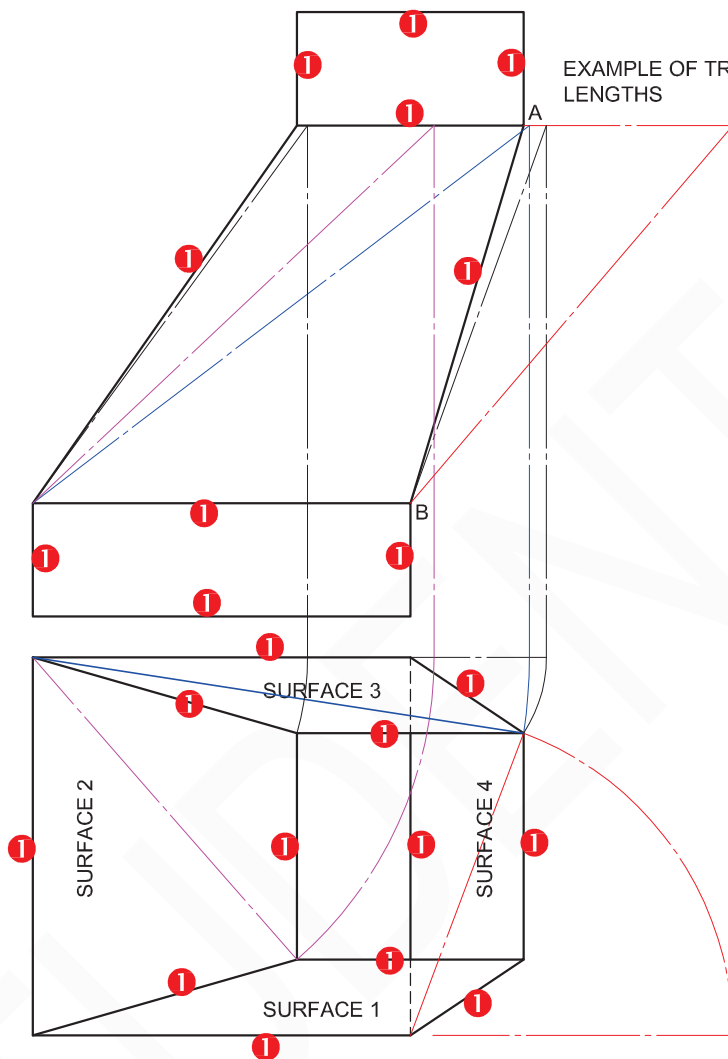
TRUE LENGTH ASSESSMENT

5 x LINES = 5

5 x METHOD = 5

10

EXAMPLE OF TRUE
LENGTHS

**ASSESSMENT CRITERIA**

1	FRONT VIEW + TOP VIEW	11
2	TRUE LENGTH METHOD	10
3	DEVELOPMENT	13
	TOTAL	34

PAPER 1 QUESTION 2
GRADE 12
Feb.-Mar. 2012
MEMORANDUM

EXAMPLE OF TRUE LENGTHS

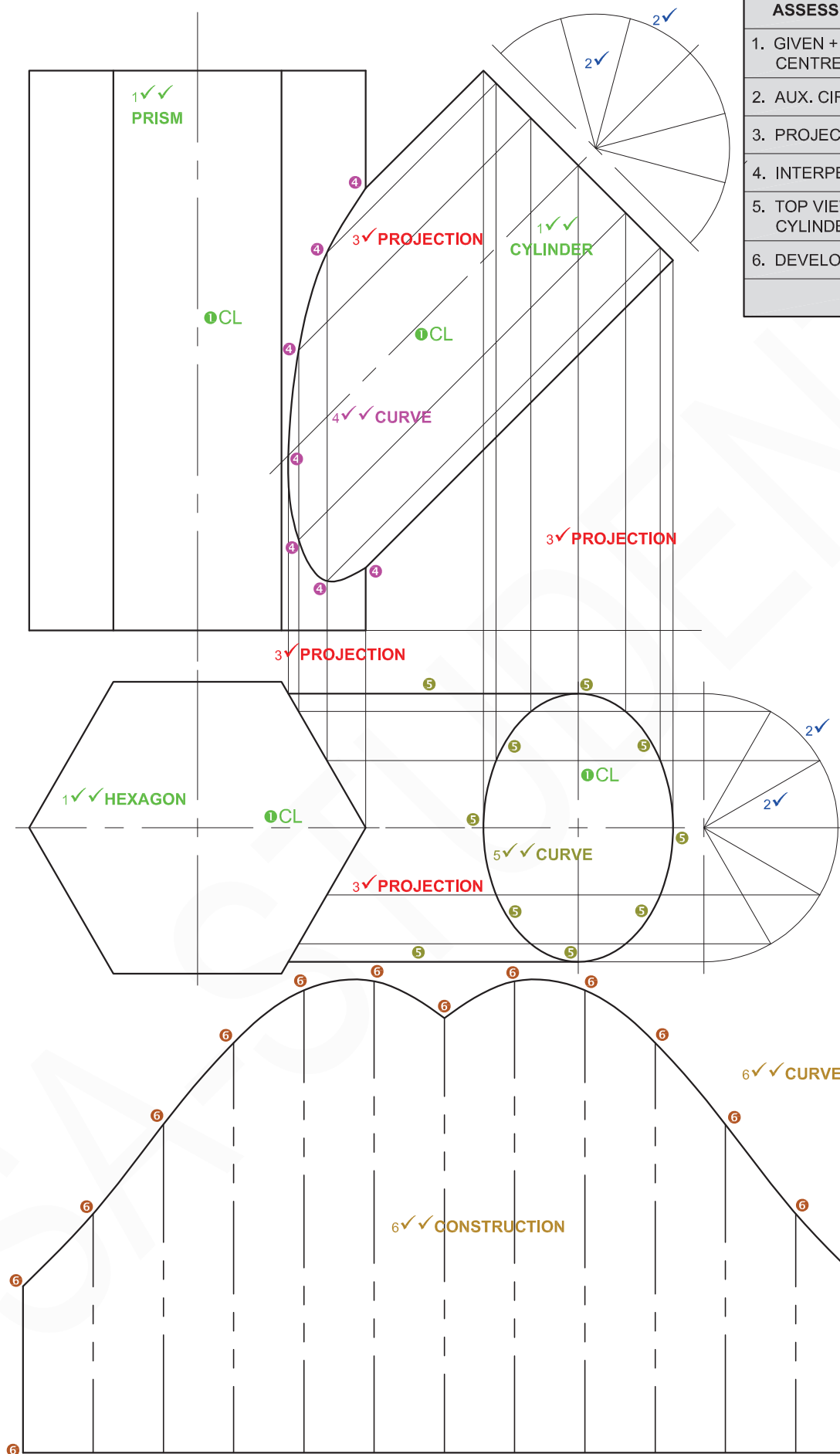
NOTE:
ALL RECOGNISED METHODS OF DETERMINING THE TRUE LENGTH ARE ACCEPTABLE.

TRUE LENGTH ASSESSMENT
 5 x LINES = 5
 5 x METHOD = 5
 10

START WITH AB

ASSESSMENT CRITERIA	
FRONT VIEW + TOP VIEW	10
TRUE LENGTH + METHOD	10
DEVELOPMENT	14
TOTAL	34

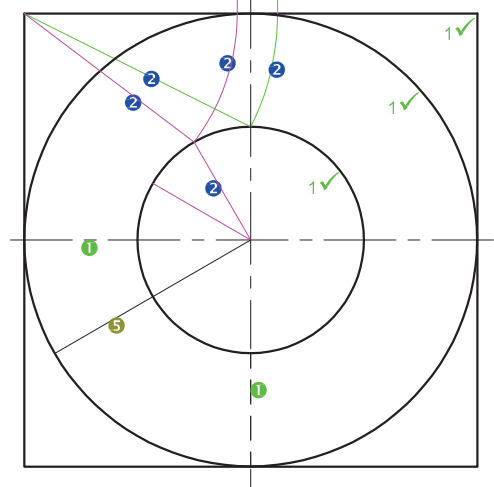
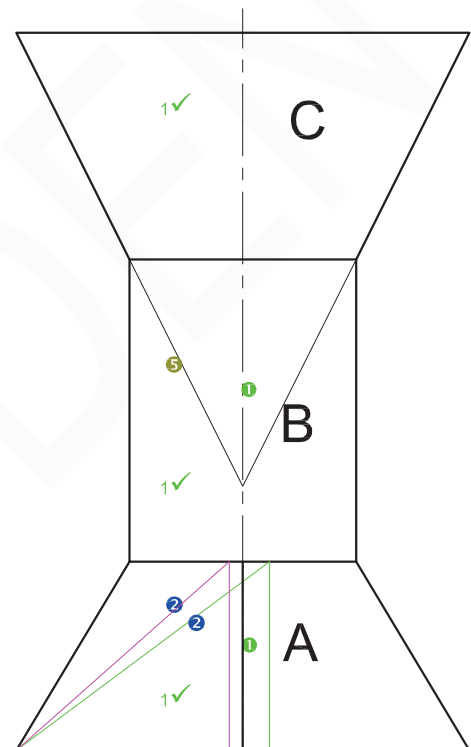
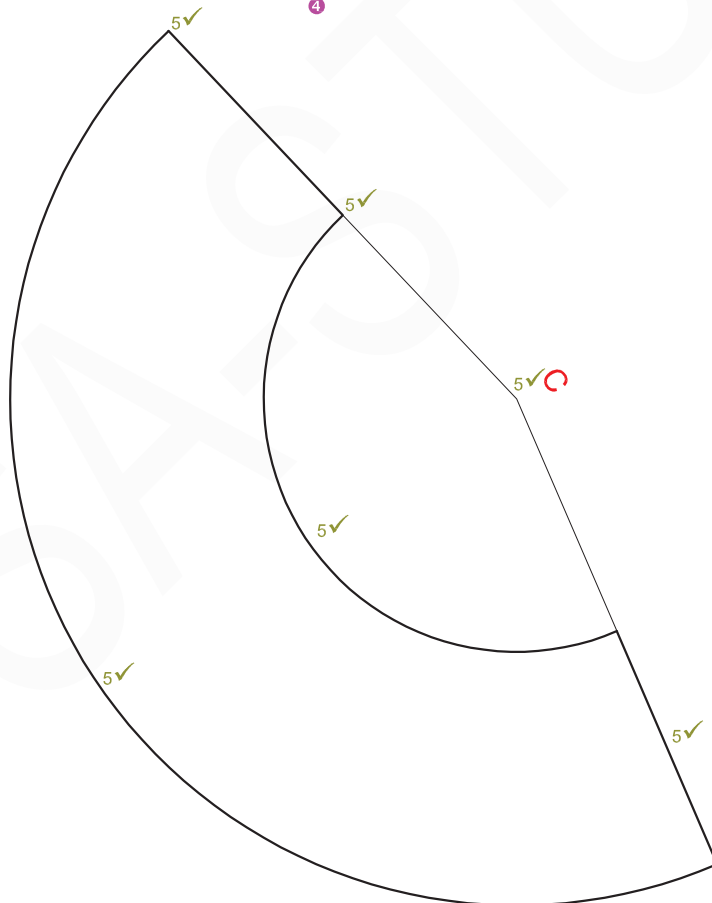
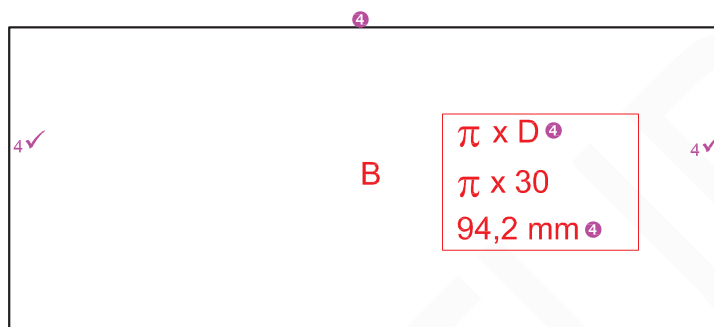
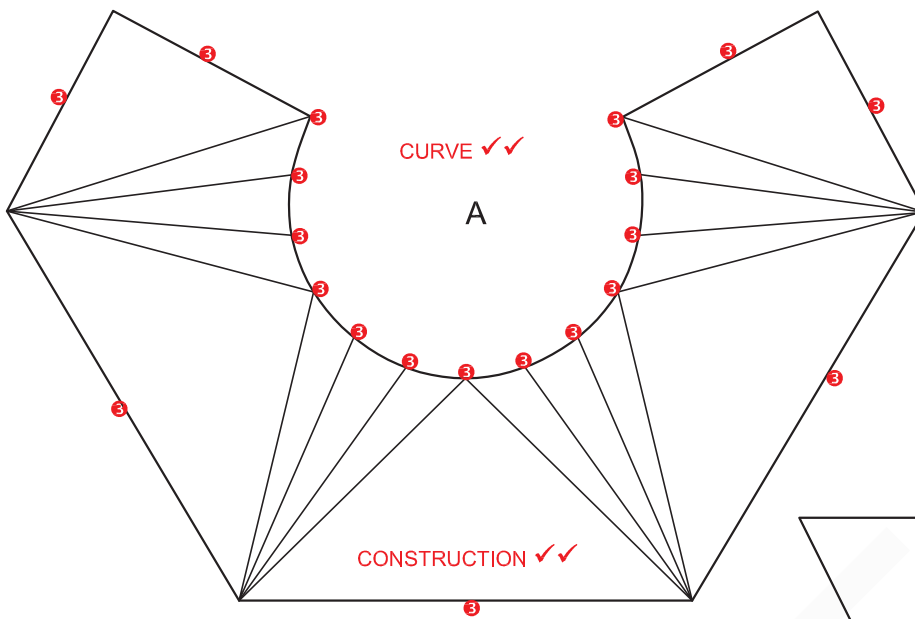
PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2011
MEMORANDUM

**ASSESSMENT CRITERIA**

1. GIVEN + CENTRE LINES	8
2. AUX. CIRCLES	4
3. PROJECTION	4
4. INTERPENETRATION	5½
5. TOP VIEW OF CYLINDER	7
6. DEVELOPMENT	11½
TOTAL	40

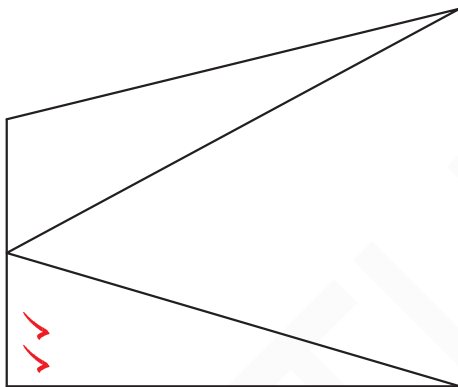
ASSESSMENT CRITERIA

1. GIVEN	8
2. TRUE LENGTHS	4
3. DEVELOPMENT A	14
4. DEVELOPMENT B	4
5. DEVELOPMENT C	7
TOTAL	37



PAPER 1 QUESTION 2
GRADE 12
NOVEMBER 2010
MEMORANDUM

✓✓ LEFT VIEW IN 1ST ANGLE

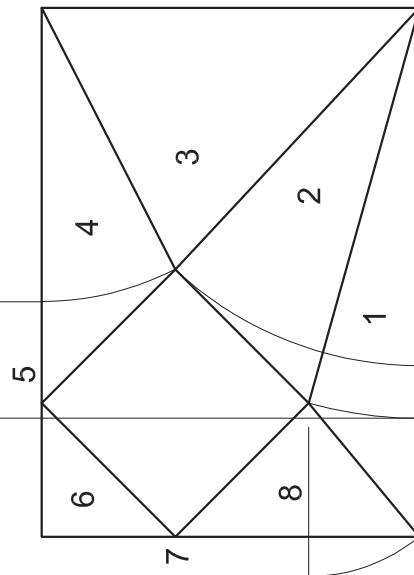
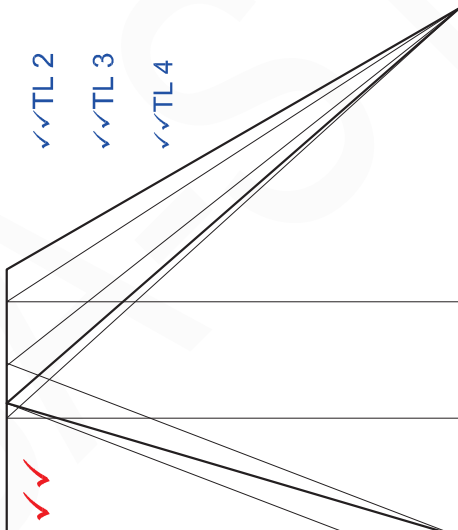
ANY RECOGNISED METHOD OF DETERMINING
THE TRUE LENGTH OF THE LINES WILL BE
ACCEPTABLE.

✓✓TL 1

✓✓TL 2

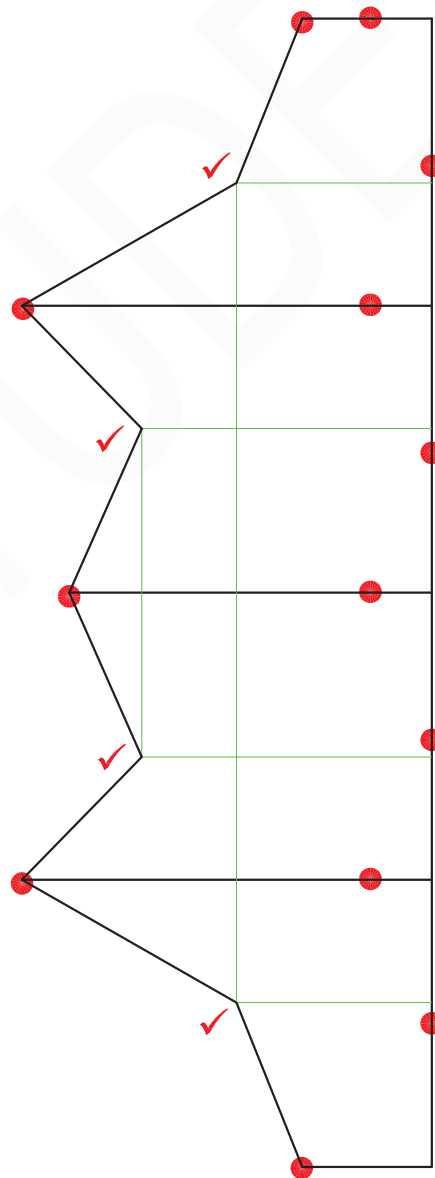
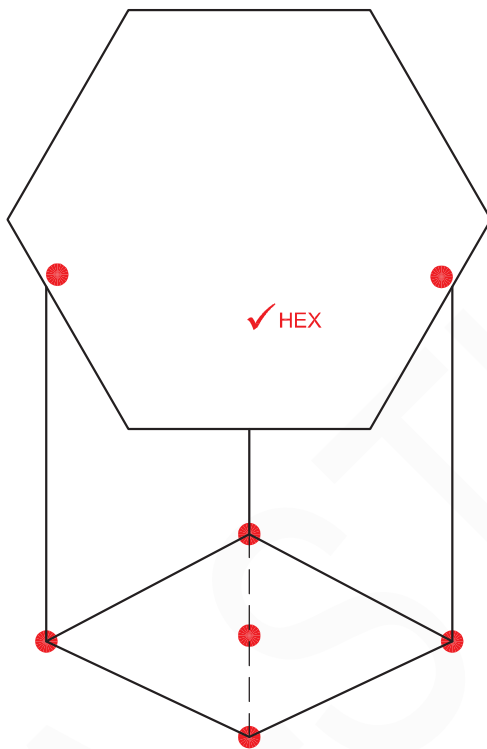
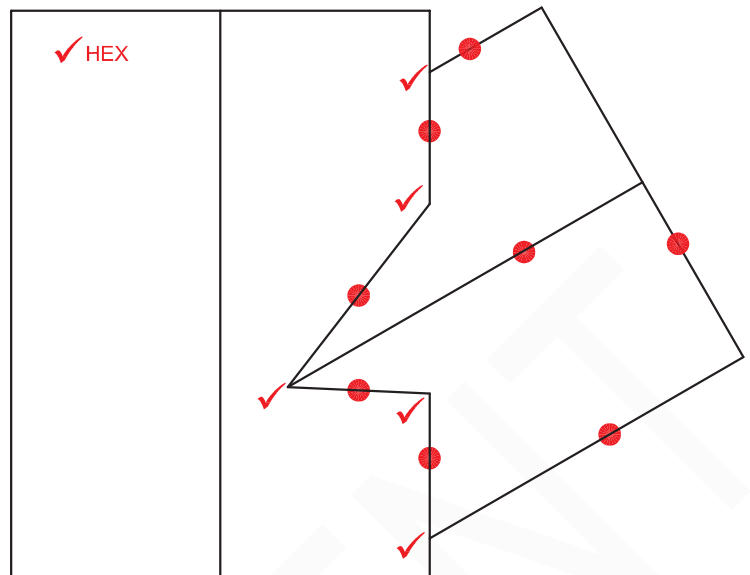
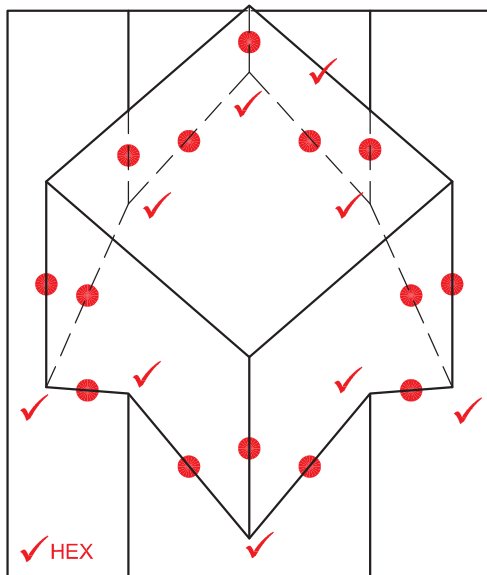
✓✓TL 3

✓✓TL 4

**ASSESSMENT CRITERIA**

TOP + FRONT + LEFT VIEW	9
TRUE LENGTHS	8
DEVELOPMENT	17
TOTAL	34

PAPER 1 QUESTION 2
GRADE 12
FEBRUARY/MARCH 2010
MEMORANDUM



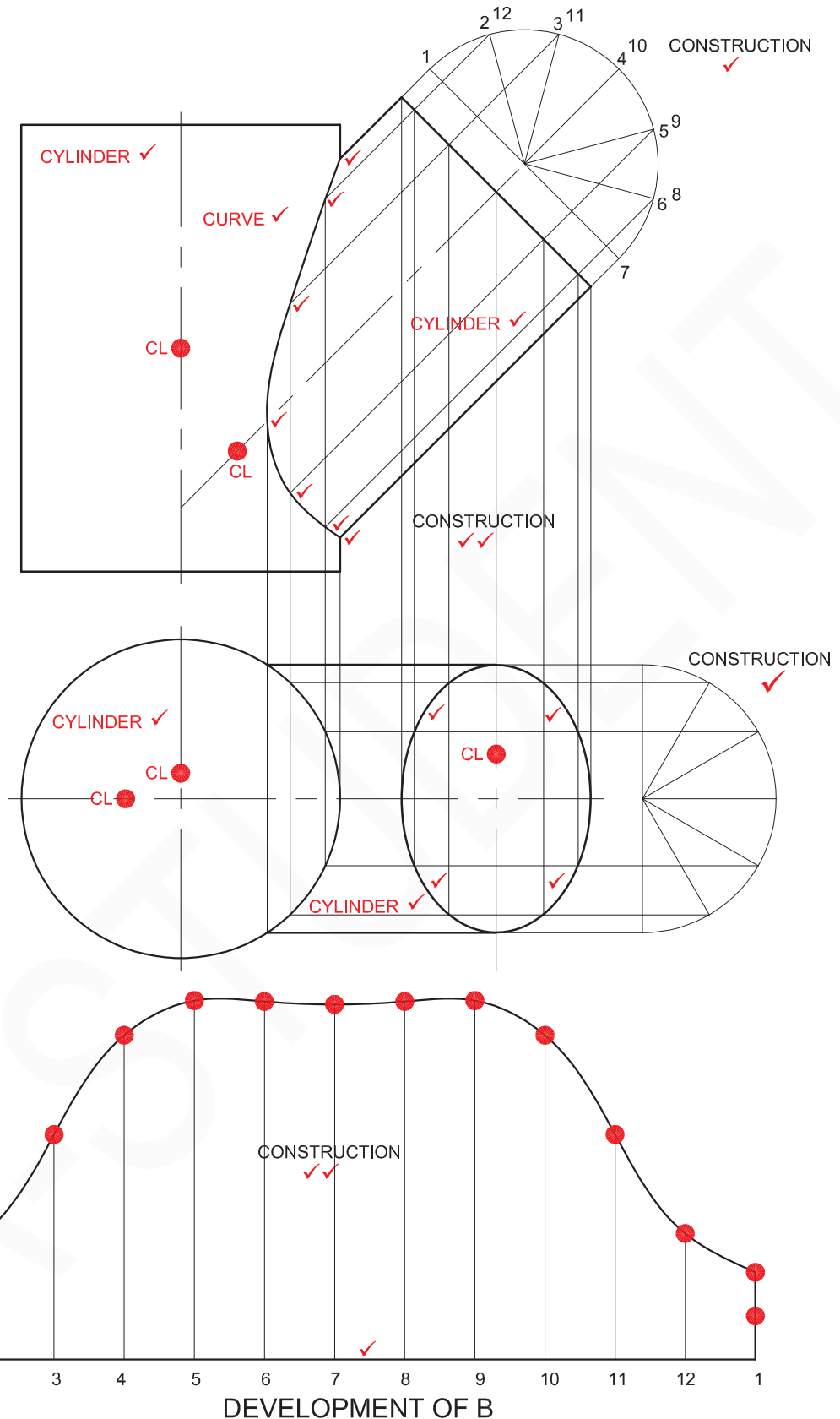
CONSTRUCTION AND PROJECTION OF SQUARE 2

● DEVELOPMENT

ASSESSMENT CRITERIA

TOP VIEW + CONSTR	6½
FRONT VIEW	17
LEFT VIEW	10
DEVELOPMENT	10½
TOTAL	44

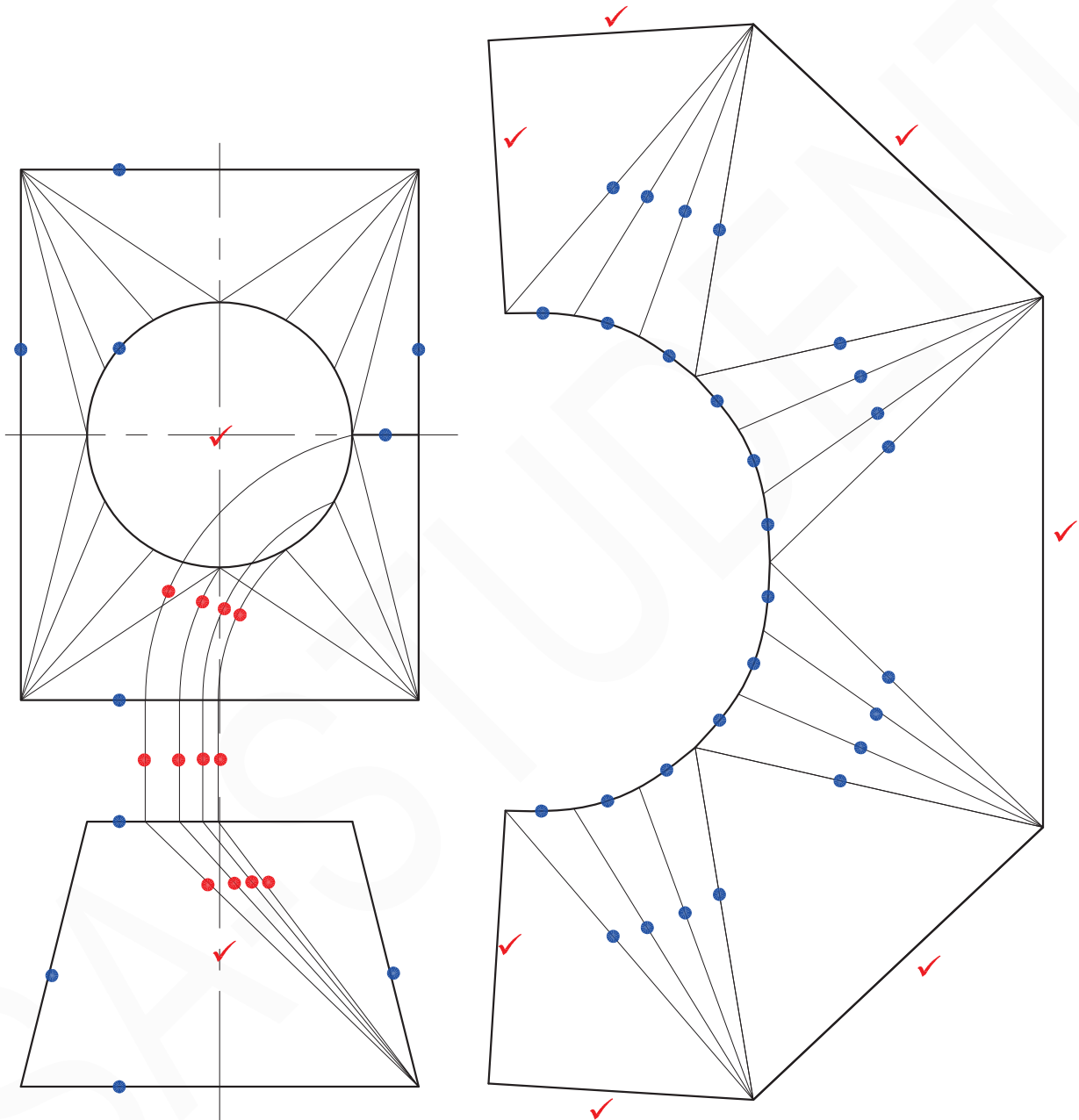
PAPER 1 QUESTION 2
GRADE 12 NOVEMBER 2009
MEMORANDUM

**ASSESSMENT CRITERIA**

FRONT VIEW	10
TOP VIEW	6
CENTRE LINES (5x½)	2½
CONSTRUCTION	6
FORMULA	2
DEVELOPMENT	10½
TOTAL	37

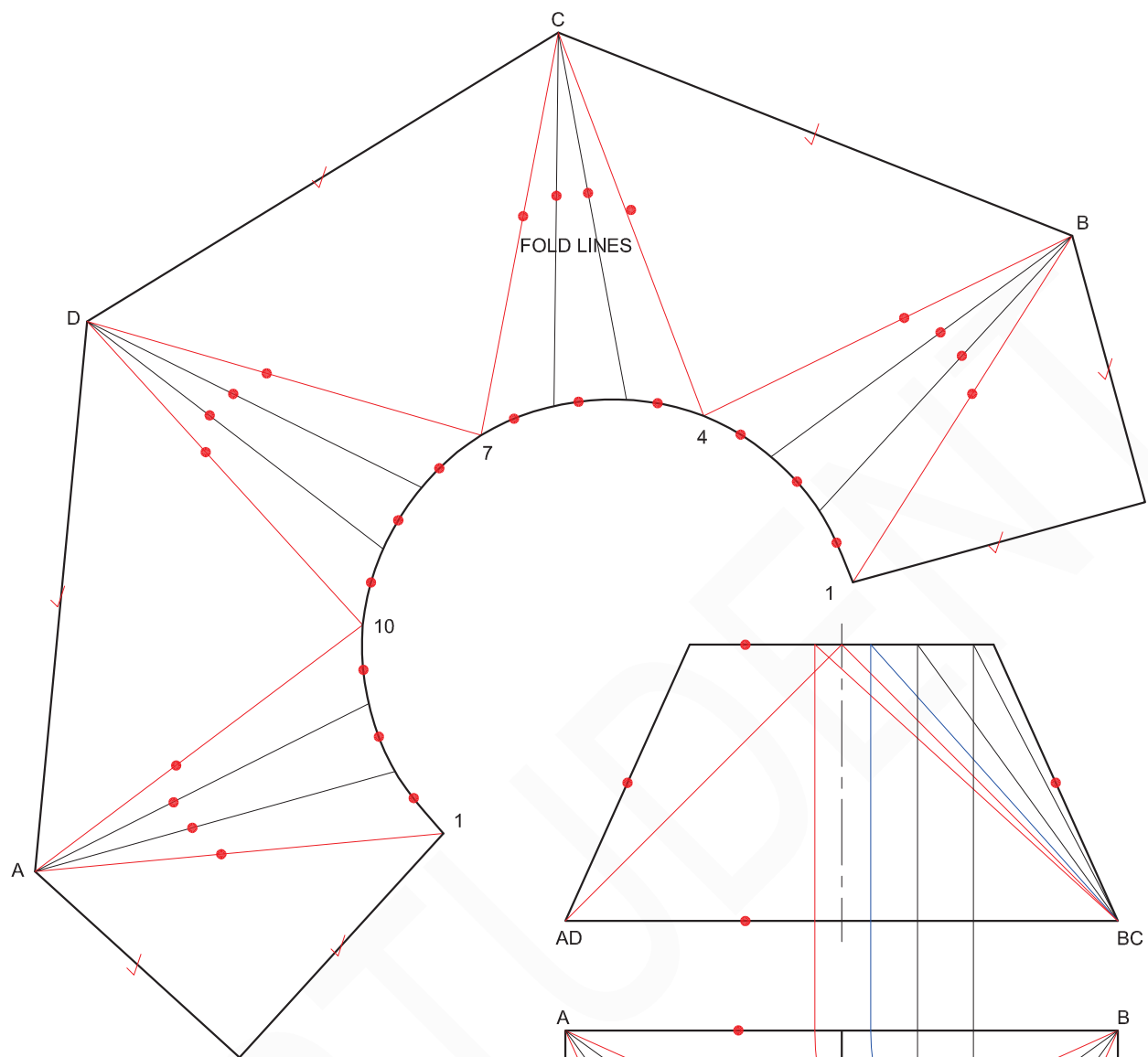
$\pi \times D$	✓
$\pi \times 42$	
132 (131.94)	✓

PAPER 1 QUESTION 2
GRADE 12
FEBRUARY/MARCH 2009
MEMORANDUM

**ASSESSMENT CRITERIA**

FRONT VIEW	2
TOP VIEW	3
CENTRE LINES	2
TOP VIEW DIVISIONS	1
TRUE LENGTH x 4	6
DEVELOPMENT	21
TOTAL	35

QUESTION 2 PAPER 1
GRADE 12 NOVEMBER 2008
MEMORANDUM

**ASSESSMENT CRITERIA**

FRONT VIEW	= 2
TOP VIEW	= 3
CIRCLE DIVISION	= 2
TRUE LENGTH x2	= 6
DEVELOPMENT	= 21
CENTRE LINES	= 1
TOTAL	= 35

2008 GRADE 12
PAPER 1
EXEMPLAR
QUESTION 2
MEMORANDUM