

FOR OFFICIAL USE		

## X033/301

NATIONAL QUALIFICATIONS 2007

MONDAY, 21 MAY 9.00 AM - 12.00 NOON

GRAPHIC COMMUNICATION HIGHER

=	Fill in these boxes and read what is printed below.		
Eu	Full name of centre	Town	
Fo	Forename(s)	Surname	
Da	Date of birth Day Month Year Scottish candidate number	Number of seat	
<u> </u>	140 Marks are allocated to this paper. Section A = Section B = Sec	Section A = 40 marks Section B =100 marks	
10	Candidates should attempt <b>all</b> questions in <b>Section A</b> and are advised to spend approximately 45 minutes on this section. A supplementary page is included at the end of <b>Section A</b> for use if extra space is required.	ion A and are advised to spend mentary page is included at the end	
ω	Candidates should attempt questions 8a, 8b, 9, 10a and 10b and <b>either</b> question 11 <b>or</b> question 12 in <b>Section B</b> .	and 10b and either question 11 or	
4	Read each question carefully before you answer.		
S	Written answers may be in <b>ink</b> or <b>pencil</b> .		
တ	Drawings and sketches must be in pencil.		
7	Dimensions are given in millimetres or as stated.		
∞	Orthographic drawings are in third angle projection.		
9	At the end of the examination		
	check that your name is on every sheet; put the sheets in correct numerical order; place this sheet on top of the others; join all sheets together by stapling at the top left-hand corner; before leaving the examination room, you must give these sheets to the invigilator (if you do not you may lose all the marks for this paper).	nd corner; ve these sheets to the invigilator (if	



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					1			
Section A Total	7	0	5	4	3	2	<u> </u>	Question
								Marks

	OR	EITHER					
Section B Total	12	11	10b	10a	9	8b	8a

A + B	Marks	Total



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Describe the **purpose** of each type of graphic and state one **example of a graphic** of that type.

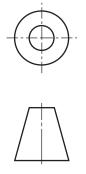
(a)
) Preliminary Purpose

Example of graphic ......

(b)Purpose ...... Production

 $\widehat{\mathcal{C}}$ Purpose ..... Promotional Example of graphic ......

Example of graphic .....



5

(a) State the name of the British Standard Symbol shown above

Name

 $\vdash$ 

 $\widehat{\mathcal{C}}$ 

(b)State the **type** of drawing where this symbol would be used.

 $\widehat{\mathcal{C}}$ State the **two** types of page orientation.

Orientation 1 ......Orientation 2 

**£** 

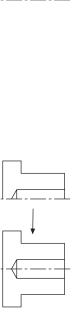
1

Marks

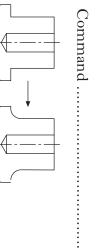
ယ (a)Shown below are stages in drawing an object. State the CAD command that is indicated at each stage.

**Section A** 

Marks



Command



Command ....

Command .....



Command .....



Command .....

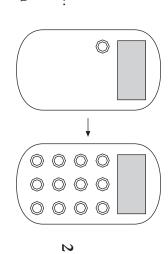
 $\Xi$ A single button is positioned on the elevation of a calculator. State the single CAD command apart from "multiple copy" that will create the twelve buttons.

6

(b)

State the CAD feature that would allow the button

Command .....



(ii)to be used in any future design.

Feature .....

Two architects exchange CAD drawings electronically by attaching them to an e-mail.  $(\Xi)$ of drawings. State the piece of hardware required for each computer to allow the exchange

State a requirement that each computer system must have to allow the architects	

 $\widehat{\Xi}$ to open and edit each others drawings.

A BLOCK PLAN is shown below, not to scale

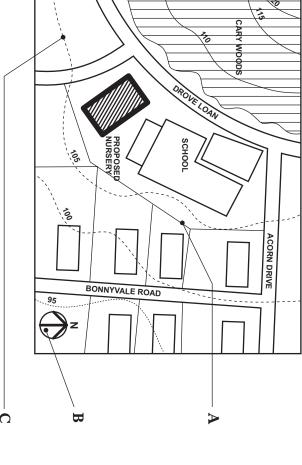
Section A

Marks

'n

(a)

(i) State the type of sectional view shown in **Drawing 1**.



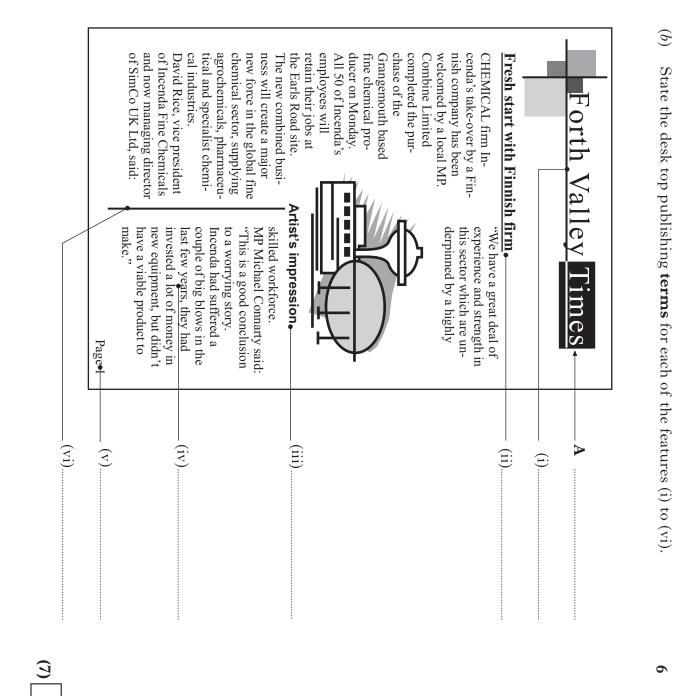
	PROPOSED BONNYVALE ROAD  95  NOSE PROPOSED BONNYVALE ROAD	
(a)	State a suitable scale for this type of plan	Ľ
( <i>b</i> )	State the feature represented at ${f A}$	_
(c)	State the name of the symbol represented at ${f B}$ and ${f C}$ .	
	ВС	2
(d)	State the names of $\mathbf{two}$ other types of architectural building plans commonly used.	
	(i) (ii)	(5)
<b>Colo</b> whe	<b>Colour Gradient, Tonal Scale</b> and <b>Highlight</b> are three effects that could be used when rendering an illustration.	
Des	Describe the effect produced by each term.	
: 6		-
Tonal	al Scale	
		Ľ
		`

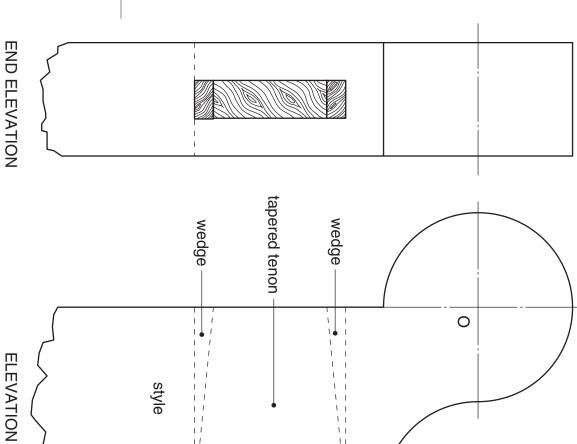
An example of a desk top published news sheet is shown. Marks

(v)State the desk top publishing effect indicated at A. .7

State the desk top publishing terms for each of the features (i) to (vi).

Number each answer clearly. Use this page if extra space is required for answers to Questions 1 to 7.





<u>a</u>

SCALE 1:1

**Draw** an isometric view of the corner with the rail and wedges exploded. Use the given start **O**. The elevation and end elevation of a corner of a gate, are shown. A sketch of the gate and detail of the exploded parts are also shown.

Section B

Do not show hidden detail.

(20 marks)

style

ISOMETRIC VIEW

[X033/301]

detail not to scale

SKETCH (NOT TO SCALE)

b		
1	7	

A sketch and development of part of a garden gate latch are shown, not to scale.

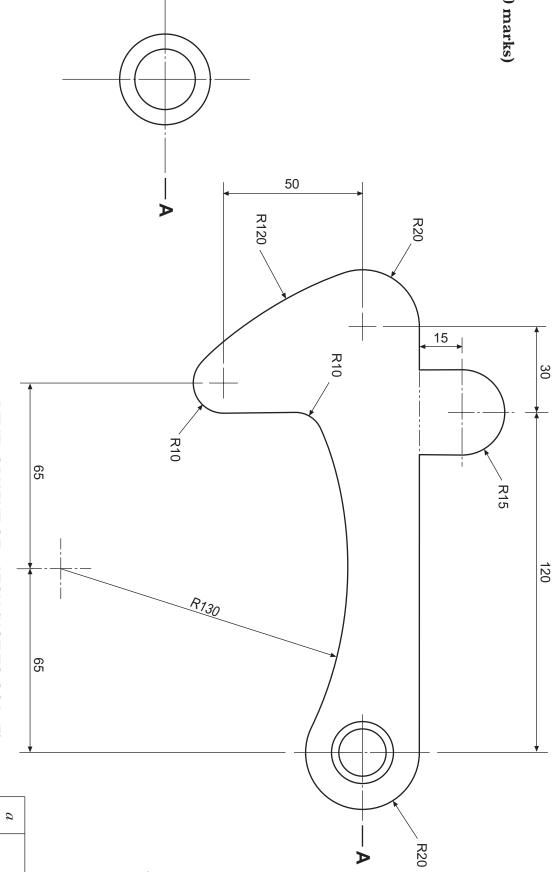
**Draw** the development of the latch on the given start, to a scale of 1:1.

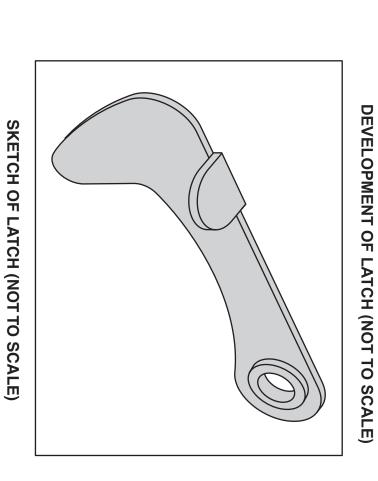
Show clearly the centres used to draw all the arcs.

Do not show dimensions.

(10 marks)

Section B





h  $\infty$  d

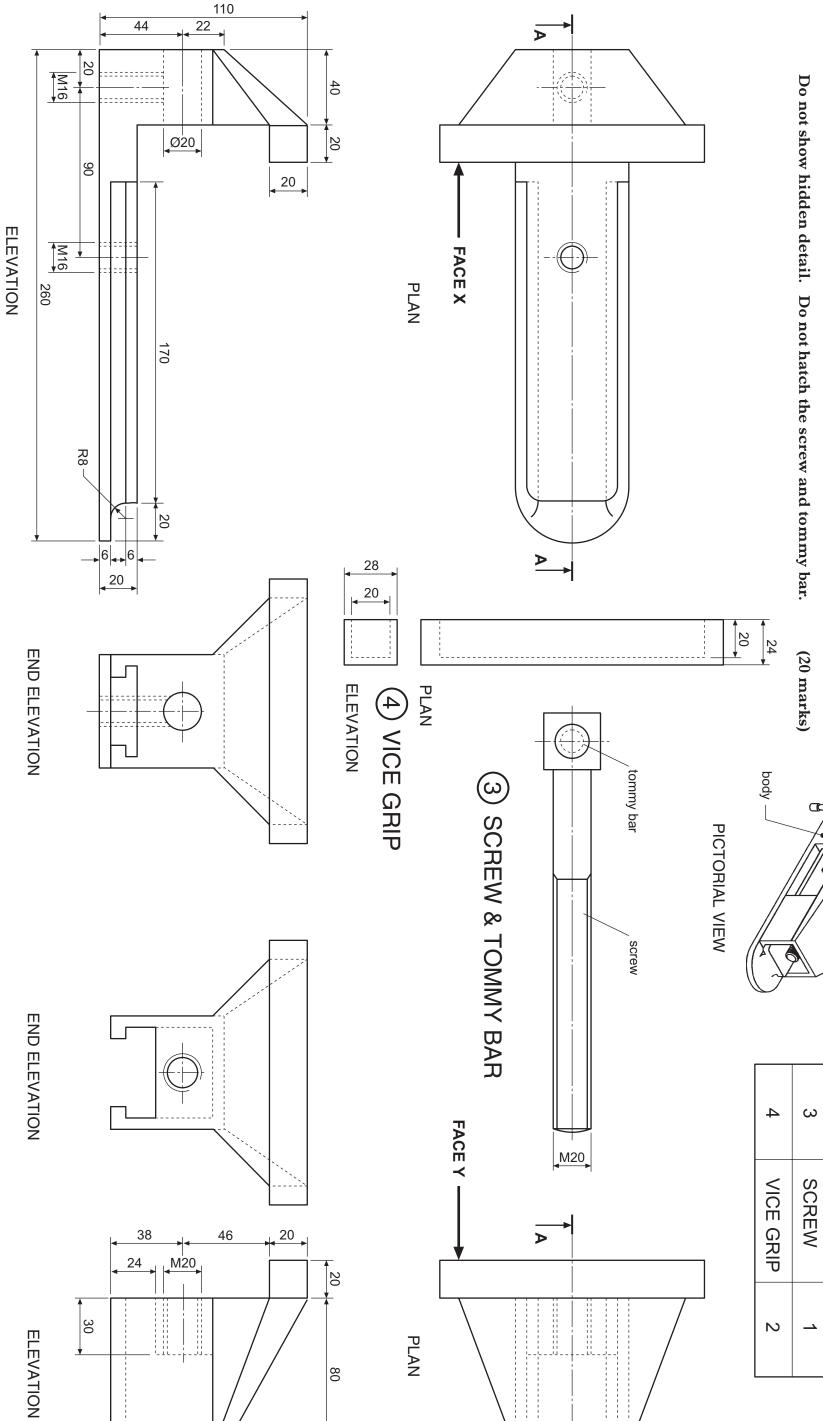
cb

n	т	l	k	$\dot{j}$



[X033/301] (-\(\overline{\top}\)-

Do not show hidden detail. Do not hatch the screw and tommy bar. Note: Only the dimensions necessary to draw the sectional view have been shown. Draw a full size sectional elevation A-A of the assembled parts on Worksheet Q9. A parts list is shown. A pictorial view is also shown. Parts of the upper part of a vice are shown. Locate faces **X** and **Y**, 40 mm apart. 24 (20 marks) acy vice grips slide Part No. ယ 2 4 SCREW BODY SLIDE Part VICE GRIP No. off 2 **Section B** 



➤

(1) BODY

2 SLIDE

54

60

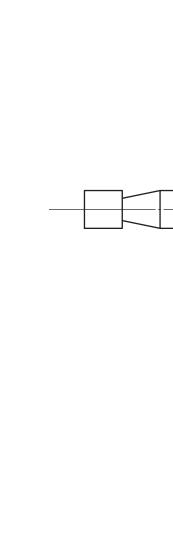


[X033/302]

SCALE 1:1 (FULL SIZE)

Candidate's Name







п	m	l	k	$\dot{j}$	i	h	8	f	е	d	С	b	a



Worksheet Q9

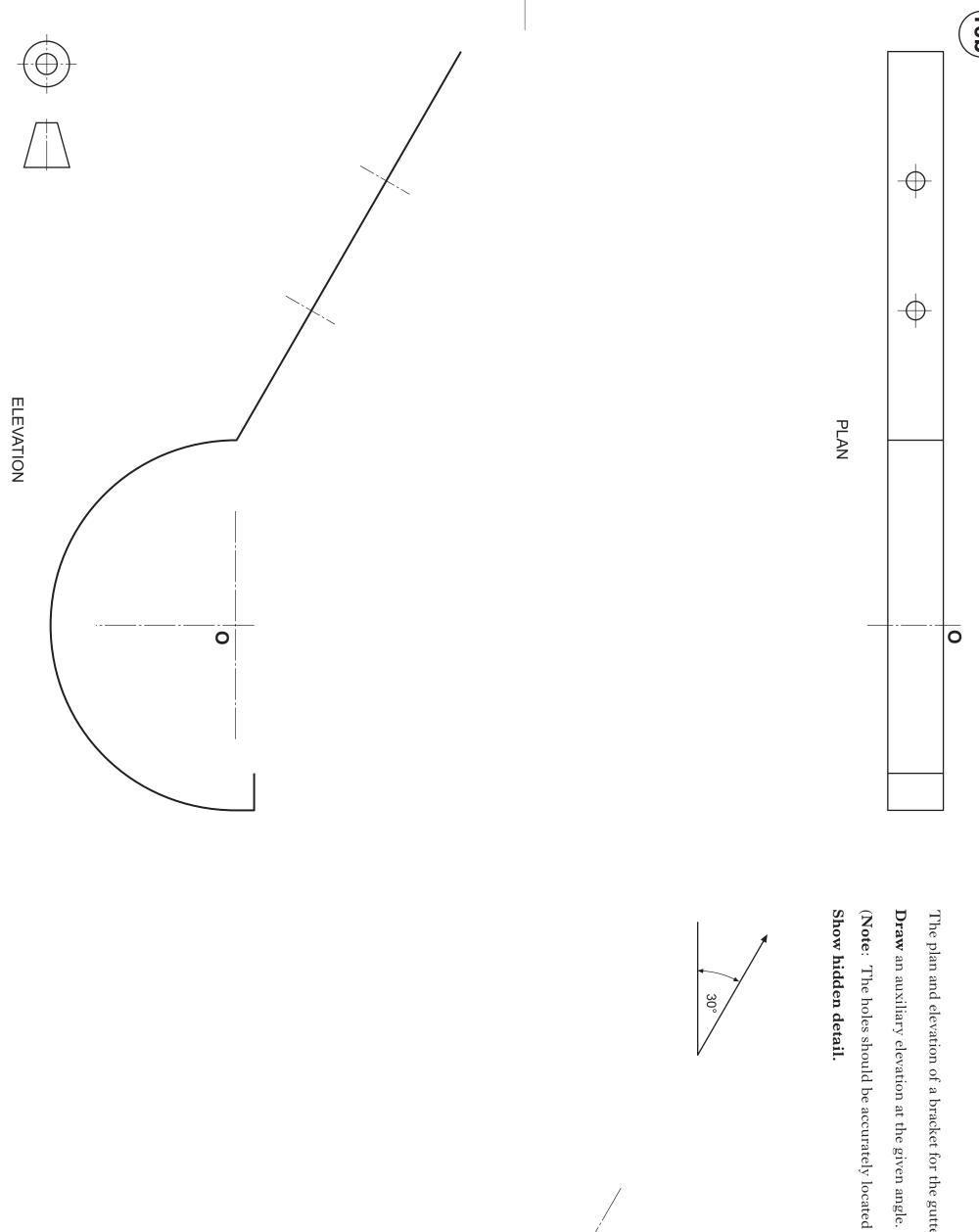
Section B (10a)

The plan and two incomplete views of a gutter connector with branch pipe are given.

 $\Box$ 

(20 marks)

n	т	l	k	j	i	h	90	f	e	d	c	b	a



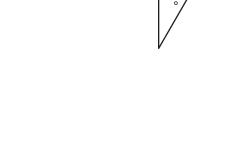
Section B (10b)

The plan and elevation of a bracket for the gutter connector in Question 10(a) are given.

(Note: The holes should be accurately located but may be sketched.)

Show hidden detail.

(10 marks)



	40	411,	4 <sub>P)</sub>	EL	<sup>E</sup> V4.	7701	
!	f	е	d	c	b	a	

											~ <	·VA.	7
n	т	l	k	j	i	h	80	f	е	d	c	b	

[X033/301]

-	_	_	_		
	_		ì	`	
	-				

**Section B** 

The elevation and end elevation of a small drawing office are shown. Draw a **measured 2-point perspective** view of the drawing office.

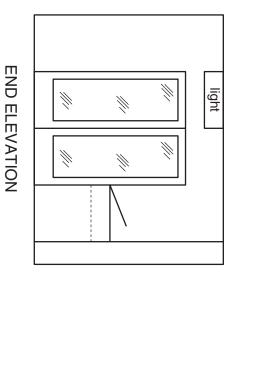
The spectator point (SP), perpendicular plane (PP), ground level (GL), eye level (EL) and plan are given.

Do not show the handles of the doors and drawers.

Do not show hidden detail.

(20 marks)

PP GL 旧



PLAN

board

a

board

light



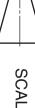
	n	m

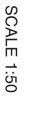




**ELEVATION** 

open





<u>چ</u>+



## Candidates should attempt EITHER Question 11 OR Question 12

The elevation and plan of part of a walled garden with an arch, decking, elliptical table and barbeque area are shown.

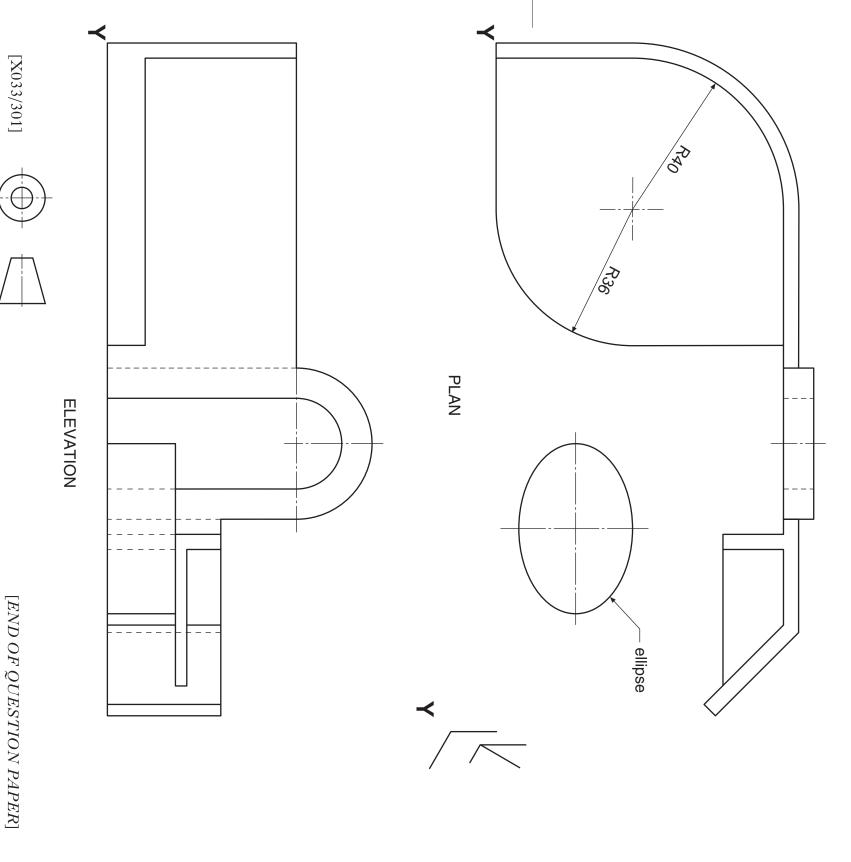
Draw a **planometric view** of the walled garden, arch, decking, elliptical table and the barbeque area using the given start point **Y**, and to the same scale.

Do not shorten the heights.

Do not show hidden detail.

(20 marks)

**Section B** 



**PLANOMETRIC** 

	п	1110

h  $\infty$  a



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