

education

Department:
Education
REPUBLIC OF SOUTH AFRICA

INSTRUCTIONS AND INFORMATION

- 1. The paper consists of FOUR questions and SIX pages.
- 2. Answer ALL the questions.
- 3. All drawings must be drawn to scale 1:1, unless otherwise stated.
- 4. The questions must be answered on the answer sheets provided.
- 5. All the answer sheets must be re-stapled in numerical sequence and handed-in irrespective of whether the question was attempted or not.
- 6. Careful time management is essential in order to complete all the questions.
- 7. Print your name in the block provided on every answer sheet.
- 8. All answers must be drawn accurately and neatly.
- 9. Any details or dimensions not given must be assumed in good proportion.

KWAZULU - NATAL

GRADE 12

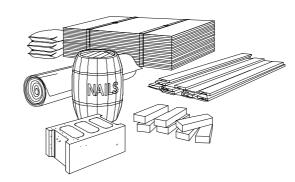


ENGINEERING GRAPHICS AND DESIGN TRIAL P1

AUGUST / SEPTEMBER 2009

MARKS: 200 TIME: 3 hours

This question paper consists of 6 PAGES.



FOR OFFICIAL USE ONLY							
MODERATED MARK				ΞD			
1				27			
2				37			
3				46			
4				90			
TOTAL				200			

LEVEL	CHECKED BY

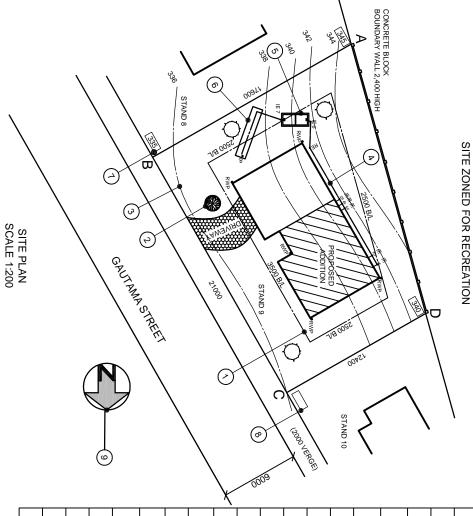
COM	PLETE THE FOLLOWING:
	NAME
	GRADE /DIVISION

Please turn over

VG / KP 2009

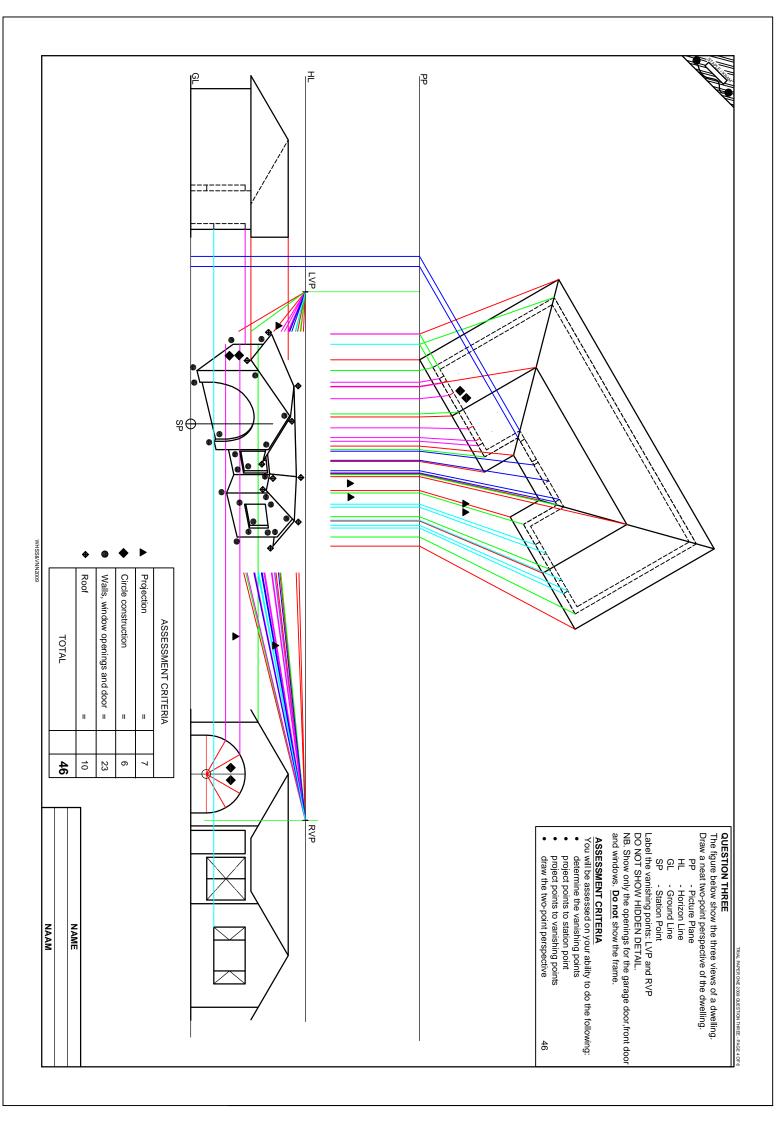


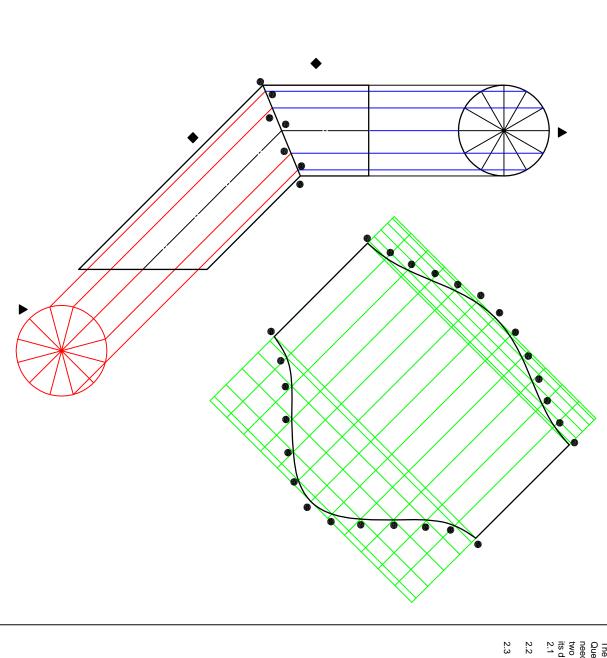
Refer to the site plan below and answer the questions that follow.



2			
01	What scale was used to draw the site plan?	1:200	_
02	What is the name of the street?	GAUTHAMA STREET	-
03	What lies on the south west of stand 9?	RECREATIONAL SITE	-
04	State in metres, the length of the boundary wall?	21.6 metres	Ν
05	What is the area of stand 9?	315m²	2
90	What is the width of the street in metres?	6 metres	_
07	What does the abbreviation IE stand for?	INSPECTION EYE	_
80	What does the abbreviation RE stand for?	RODDINGEYE	-
09	What colour must the proposed addition be on the site plan?	RED	<u> </u>
10	Which elevation faces the street?	NORTH EAST	_
11	What is the line at 1 called?	FRONT BUILDING LINE	<u> </u>
12	What is the feature at 2 called?	TREE	<u> </u>
13	What is the feature at 3 called?	CONTOUR LINE	<u> </u>
14	What does the line at 4 represent?	SEWER PIPE / LINE	_
15	What is the feature at 5 called?	SEPTIC TANK	_
16	Name the feature at 6.	SOAK PIT/FRENCHDRAIN	_
17	What is the feature at 7 called?	CORNER HEIGHT	_
18	What will the value at 8 be?	336 metres	_
19	What does the symbol at 9 represent?	NORTH POINT	_
20	What is the distance in metres, from the front building line to the boundary?	3.5 metres	_
21	Would stand 9 be above or below road level?	ABOVE	_
22	What finish is used on the driveway?	BRICK PAVING	_
23	State the perimeter of stand 9.	72.6 metres	2
24	What is the difference in height between A and C?	9 metres	1

NAAM NAME





QUESTION TWO

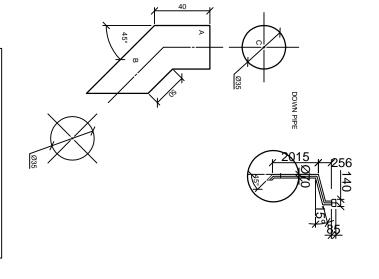
The drawing below shows a part of the rain water down pipe used in Question 4 (civil drawing). The circled area shown in the drawing needs to be developed after first finding the line of intersection of the two pipes. An exploded view of this down pipe is shown below with its dimensions scaled down to half its original size (1:2).

2.1 Draw the given pipes (A and B) as shown in the exploded

- Find the line of intersection of the two pipes. Show all
- necessary construction.

 Develop the surface of pipe B.

30 marks



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		oints	ircle
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		deve	cons
		Points and development	Circle and construction
NAME		nent	tion
E	⊣		
	TOTAL		
		=	=
	37	33	2

Drawing the given pipes

ASSESSMENT CRITERIA

