



VIEW 1

VIEW 2

ALL DIMENSIONS ARE IN MILLIMETRES

UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS ARE ± 0,25

ALL UNSPECIFIED RADII ARE R3

DRAWING PROGRAMME: AUTOCAD 2008

DATE	15-10-08	CHANGED BY	KAREN	SPLINE ON MAIN HUB	A
DATE	20/02/08	CHECKED	KARL		
DATE	26/02/08	APPROVED	JESSIE		
DATE	01/03/08				
SCALE	1:2				

FILE NAME: S-P2-A2
 MATERIAL: CAST IRON
 HEAT TREATMENT: NORMALISE

CAPE STEEL
 FOREST DRIVE
 GOODWOOD
 5240
 www.capesteel.co.za

BELL CRANK

QUESTION 1: ANALYTICAL (MECHANICAL)

Given:
 A table of questions and a working drawing.

Instructions:
 Complete the table below by neatly printing the answers to the questions, which all refer to the accompanying drawings and the title block. [29]

QUESTIONS		ANSWERS	
1	On what date was the drawing first completed?		1
2	What material is used to manufacture the bell crank?		1
3	What is the drawing number?		1
4	How many revisions have been made to the drawing?		1
5	Where is the manufacturing company situated?		1
6	What is the tolerance allowed on the dimensions?		1
7	How many surfaces must be machined?		1
8	What is feature A called?		1
9	What is feature B called?		1
10	What is feature C called?		1
11	What is feature D called?		1
12	Name the type of line shown at E .		1
13	Identify the type of symbol shown at F .		1
14	Name the type of section on VIEW 1.		2
15	Determine the dimensions at: P Q R		3
16	What is the size of angle S ?		1
17	What orthographic projection system has been used?		1
18	Draw the arrows for the cutting plane located on view 2 and label it A-A.		2
19	In the box below and in freehand, neatly draw the symbol for the projection system used.		4
20	In the box below and in freehand, neatly draw the SABS 0111 convention used for the feature at B .		3
		TOTAL 29	

19	
20	

SYMBOL	Convention for feature B
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EXAMINATION NUMBER	
EXAMINATION NUMBER	2

