



basic education

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REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE/
NATIONAL SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2020

MARKS: 150

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2014 June Physics Paper Grade 12

G Psacharopoulos



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The Enigmatic Realm of **2014 June Physics Paper Grade 12**: Unleashing the Language is Inner Magic

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leaders if the symbol has a leader click once to place the leader then click a second time to place the symbol multiple leaders while dragging the symbol and before placing it press ctrl the note stops moving and a second leader is added while still

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conventional method for designing surface finish as per is 696 surface texture specified by indicating the following a roughness value i e ra value in mm b machining allowance in mm c sampling length or instrument cut off length in mm d machining production method and e direction of lay in the symbol form as x m c r

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for jis symbols specify roughness ra roughness rz rmax for gost symbols you can also select use for notation displays the surface finish symbol 0 5 times larger than the default size add default symbol displays the default surface finish symbol in parentheses format use document font

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bs en iso 1302 2002 geometrical product specifications gps indication of surface texture in technical product documentation for notes on surface roughness use link surface roughness notes the symbol indicates the surface finish requirements and shows a machining allowance requirement of 3mm on all surfaces

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let s take a look how the jis defines each type of plating such as chrome plating and zinc plating the jis defines the types grades and symbols for electro galvanizing as shown in the table below

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the desired surface finish is of the most importance for optimal performance and functionality of mechanical components

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1 positions of auxiliary symbols for surface symbol a surface roughness value cut off value or reference length machining method grain direction surface undulation etc are indicated around the surface symbol as shown in fig 1 below fig 1 positions of auxiliary symbols

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surface symbol symbol indicating a surface where removal processes are prohibited symbol indicating a surface that requires a removal process examples of indicating the ra upper limit a b c example of indicating grain direction examples of indicating ra upper limit and lower limit a b examples of indicating the machining method

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jan 6 2021 the basic surface finish symbol is a check mark with the point resting on the surface to be specified variations of this symbol provide additional instructions as described in the table below figure 5 surface finish symbols basics

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to open the surface finish propertymanager do one of the following insert a new surface finish symbol click surface finish on the annotation toolbar or click insert annotations surface finish symbol select an existing surface finish symbol

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may 12 2020 it is suggested to indicate the surface roughness on drawing by symbols the bis recommended symbols for indicating the surface finish are shown in table a for the roughness values greater than 25µm the symbol is used for roughness value less than 25µm the equilateral triangular symbol is used

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