



# GRADE 12

## basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE/SENIOR SERTIFIKAAT  
NATIONAL SENIOR CERTIFICATE/  
NATIONALE SENIOR SERTIFIKAAT

GRADE 12/GRAAD 12

MATHEMATICS PU/WISKUNDE VI

NOVEMBER 2020

MARKING GUIDELINES/ANSIENRIGLYNE

MARKS/PUNTE: 150

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# MATHS

## PAPER 1 MEMO

Mathematics/P1

3  
50/150



### QUESTION 1

1.1 Solve for  $x$ :

1.1.1  $x^2 - 6x - 9$

1.1.2  $x^2 + 10x + 8 = 0$  (correct to TWO decimal places)

1.1.3  $(x - 3)(x + 2) < 0$

1.1.4  $\sqrt{x - 18} = x - 2$

1.2 Solve simultaneously for  $x$  and  $y$ :

$x + y = 3$  and  $2x^2 + 4xy - y = 15$

1.3 If  $n$  is the largest integer for which  $n^{20} < 5^{20}$ , determine the value of  $n$ .

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