



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

NATIONAL
SENIOR CERTIFICATE

GRADE 11

FRIDAY 07 AUGUST 2026

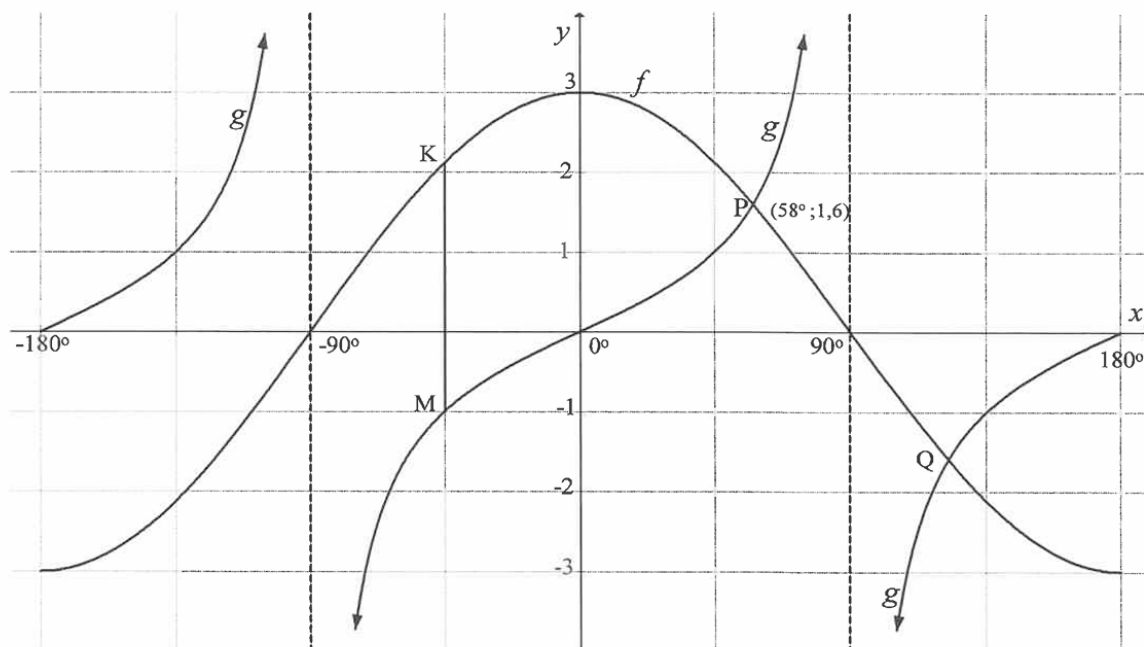
MARKS=24

TIME=45 min

INSTRUCTIONS

- 1.This question paper consist of 4 pages
- 2.Answer all questions
- 3.Clearly show all calculations
4. Diagrams are not necessarily drawn to scale
5. Round your answers to two decimal places
- 6.A non-programmable calculator may be used

Question 1



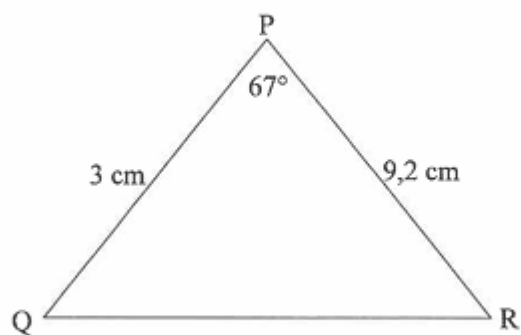
- 1.1 Write down the range of f . (2)
- 1.2 If $M(-45^\circ; -1)$ lies on g , determine the value of c . (1)
- 1.3 Write down the values of a and b . (2)
- 1.4 Determine the coordinates of Q . (2)
- 1.4 K lies on f such that KM is parallel to the y -axis. (2)
- 1.5 Calculate the length of KM . (2)

If the system of axes is shifted 45° to the left and the graphs remain fixed, write down the equation that is now represented by graph f .

(2)
[11]

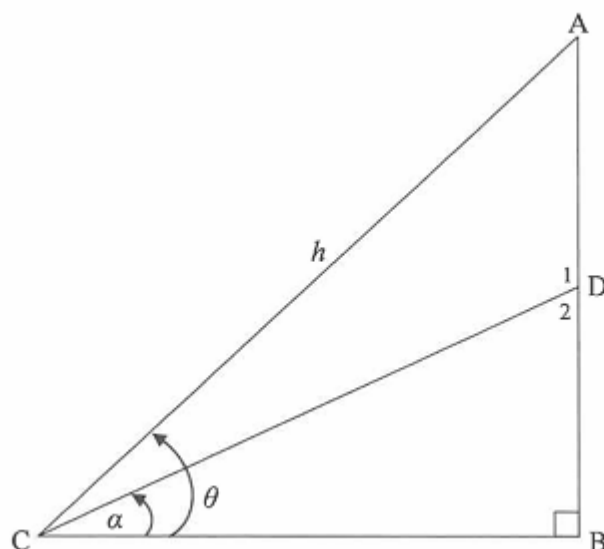
QUESTION 2

- 2.1. In the diagram, $\hat{P} = 67^\circ$, $PQ = 3$ cm and $PR = 9,2$ cm.
Determine the length of QR .



(3)

In the diagram below, $\hat{DCB} = \alpha$, $AC = h$ units and $\hat{ACB} = \theta$.



- 2.2 Determine size of $\hat{ACD}$ in terms of θ and α . (1)
- 2.3 Prove that $AD = \frac{h \sin(\theta - \alpha)}{\cos \alpha}$ (4)
- 2.4 Determine the length of AD if $h = 17$ units, $\theta = 58^\circ$ and $\alpha = 23^\circ$. (2)
- Calculate the area of $\triangle ADC$. (3)
- [13]