

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate Name: _____

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0580/22

Mathematics

Paper 2 (Extended)

1 hour 45 minutes

1 hour 45 minutes

Solved

You must answer all the questions.

Graphs must be drawn freehand.

INSTRUCTIONS

- Answer all questions.
- Use a ruler to mark lines only. Do not use an eraser for any drawings or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers in your candidate's language provided.
- Do not use an eraser for any correction.
- Do not write on any bar codes.
- Do not use a calculator where appropriate.

1. Determine the number of terms in a finite geometric progression.

17. The first three terms of a finite geometric progression are 1, 2, 4. The sum of the first n terms is 15. Find n .

Solution: $u = 1, r = 2$
 $S_n = \frac{1(2^n - 1)}{2 - 1} = 15$
 $2^n - 1 = 15$
 $2^n = 16$
 $n = 4$

18. Express $\frac{1}{x^2 - 4}$ in partial fractions.

Solution: $\frac{1}{x^2 - 4} = \frac{1}{(x - 2)(x + 2)}$
 $\frac{1}{(x - 2)(x + 2)} = \frac{A}{x - 2} + \frac{B}{x + 2}$
 $1 = A(x + 2) + B(x - 2)$
 $1 = Ax + 2A + Bx - 2B$
 $1 = (A + B)x + (2A - 2B)$
 $A + B = 0$
 $2A - 2B = 1$
 $A = -\frac{1}{4}, B = \frac{1}{4}$
 $\frac{1}{x^2 - 4} = \frac{-1/4}{x - 2} + \frac{1/4}{x + 2}$

19. The diagram shows three triangles, PQR , QSR and PSR .



20. Express $\frac{1}{x^2 - 4}$ in partial fractions.
- Solution:* $\frac{1}{x^2 - 4} = \frac{1}{(x - 2)(x + 2)}$
 $\frac{1}{(x - 2)(x + 2)} = \frac{A}{x - 2} + \frac{B}{x + 2}$
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 $\frac{1}{x^2 - 4} = \frac{-1/4}{x - 2} + \frac{1/4}{x + 2}$

21. The diagram shows three triangles, PQR , QSR and PSR .

Triangle	Angle $\angle PQR$	Angle $\angle QSR$	Angle $\angle PSR$
PQR	110°	110°	110°
QSR	110°	110°	110°
PSR	110°	110°	110°

22. Express $\frac{1}{x^2 - 4}$ in partial fractions.

Solution: $\frac{1}{x^2 - 4} = \frac{1}{(x - 2)(x + 2)}$
 $\frac{1}{(x - 2)(x + 2)} = \frac{A}{x - 2} + \frac{B}{x + 2}$
 $1 = A(x + 2) + B(x - 2)$
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 $A + B = 0$
 $2A - 2B = 1$
 $A = -\frac{1}{4}, B = \frac{1}{4}$
 $\frac{1}{x^2 - 4} = \frac{-1/4}{x - 2} + \frac{1/4}{x + 2}$

23. Express $\frac{1}{x^2 - 4}$ in partial fractions.

Solution: $\frac{1}{x^2 - 4} = \frac{1}{(x - 2)(x + 2)}$
 $\frac{1}{(x - 2)(x + 2)} = \frac{A}{x - 2} + \frac{B}{x + 2}$
 $1 = A(x + 2) + B(x - 2)$
 $1 = Ax + 2A + Bx - 2B$
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 $2A - 2B = 1$
 $A = -\frac{1}{4}, B = \frac{1}{4}$
 $\frac{1}{x^2 - 4} = \frac{-1/4}{x - 2} + \frac{1/4}{x + 2}$

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RJ Shavelson



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Social Media in South India Shriram Venkatraman,2017-06-09 One of the first ethnographic studies to explore use of social media in the everyday lives of people in Tamil Nadu Social Media in South India provides an understanding of this subject in a region experiencing rapid transformation The influx of IT companies over the past decade into what was once a space dominated by agriculture has resulted in a complex juxtaposition

between an evolving knowledge economy and the traditions of rural life While certain class tensions have emerged in response to this juxtaposition a study of social media in the region suggests that similarities have also transpired observed most clearly in the blurring of boundaries between work and life for both the old residents and the new Venkatraman explores the impact of social media at home work and school and analyses the influence of class caste age and gender on how and which social media platforms are used in different contexts These factors he argues have a significant effect on social media use suggesting that social media in South India while seeming to induce societal change actually remains bound by local traditions and practices

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