

MATHEMATICS

Paper 9709/11

Paper 11

General comments

Candidates generally found the paper accessible and there were many excellent responses. **Questions 5 and 6** caused considerable difficulty, probably because of their non-stereotyped nature. The algebra required in **Question 8** also presented problems, but it was pleasing that the majority of candidates, even those unable to complete the request in part (i), used the answer correctly in the rest of the question. The standard of presentation was good and there was little evidence that candidates had been short of time.

Comments on specific questions

Question 1

Although the majority of candidates correctly equated $2x + 15$ with $\tan^{-1}\left(\frac{4}{3}\right)$, many weaker candidates automatically replaced $\tan(2x + 15)$ by $\tan 2x + \tan 15^\circ$ or by $2 \tan x + \tan 15^\circ$. A surprising number added 15° to 53.13° , rather than subtracting, and a sizeable minority of all candidates only considered angles in the first quadrant.

Answer: 19.1° , 109.1° .

Question 2

This question presented problems, with many candidates failing to realise that the curves 'flattened' at $x = 0$ and at $x = \pi$. Although most candidates realised that the graph lay between $y = -3$ and $y = 3$, it was very common to see graphs that were 'V-shaped' or in the shape of a parabola. The drawing of the straight line also caused difficulty with many candidates failing to realise that the line had a negative gradient and passed through $(\pi, 0)$.

Question 3

- (i) This was very well answered with the majority of candidates correctly using binomial coefficients.
- (ii) It was pleasing that most candidates realised that the product of $(1 + 2x + ax^2)$ with $(2 - x)^6$ gave three terms in x^6 .

Answers: (i) $64 - 192x + 240x^2$; (ii) 3.

Question 4

This was a straightforward question that generally was answered well.

- (i) The majority of candidates differentiated correctly and set the differential to zero. Surprisingly, the solution of the equation $-4x^3 + 4 = 0$ was often quoted as $x = \pm 1$, or even as $x = 1$.
- (ii) Nearly all candidates realised the need to integrate the equation of the curve. The standard of integration and use of limits was excellent.

Answers: (i) $(-1, 6)$, Minimum; (ii) 11.2.



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Christian G. Meyer



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