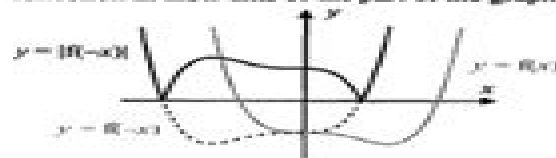


Answers

Set 1 Paper 1 — Pure Mathematics 1

- 1 a) $f'(x) = 3x^2 - 8x - 3$
[2 marks available — 1 mark for differentiating to get a quadratic, 1 mark for the correct answer]
- b) $f(x)$ is decreasing when $f'(x) < 0$:
 $f'(x) = 0 \Rightarrow 3x^2 - 8x - 3 = 0 \Rightarrow (3x + 1)(x - 3) = 0$ [1 mark]
 $\Rightarrow x = -\frac{1}{3}$ and 3 [1 mark] $f'(x)$ is u-shaped so is negative when $-\frac{1}{3} < x < 3$. So in the required set notation, this is $\{x : x > -\frac{1}{3}\} \cap \{x : x < 3\}$ [1 mark].
[3 marks available in total — as above]
- 2 
 $\sin \angle ACB = \frac{\sin 24^\circ}{5} \Rightarrow \sin \angle ACB = \frac{9 \sin 24^\circ}{5} = 0.7321 \dots$
 \Rightarrow Angle $ACB = \sin^{-1}(0.7321 \dots) = 47.06 \dots^\circ$ or $180^\circ - 47.06 \dots^\circ$
 \Rightarrow Angle $ACB = 47.1^\circ$ (1 d.p.) or Angle $ACB = 132.9^\circ$ (1 d.p.)
[3 marks available — 1 mark for using the sine rule correctly, 1 mark for 47.1° , 1 mark for 132.9°]
- 3 a) $(\sqrt{2}x^3)^{-1} = \sqrt{2}^{-1}x^{3 \times -1} = 8x^2$
[2 marks available — 1 mark for an answer in the form kx^n or $8x^2$, 1 mark for the correct answer]
- b) Substitute $y = 1 - 3x$ into $8x^2 + 6x - 18 = y^2 - y$ to give
 $8x^2 + 6x - 18 = (1 - 3x)^2 - (1 - 3x)$ [1 mark]
 $\Rightarrow 8x^2 + 6x - 18 = 1 - 6x + 9x^2 - 1 + 3x$ [1 mark]
 $\Rightarrow x^2 - 9x + 18 = 0$
 $\Rightarrow (x - 3)(x - 6) = 0$ [1 mark]
 $\Rightarrow x = 3$ and $x = 6$ [1 mark]
[4 marks available in total — as above]
- 4 a) E.g. in a regular 3-sided shape (equilateral triangle) the exterior angles are $360^\circ \div 3 = 120^\circ$ which is not acute [1 mark].
You could also have chosen a regular 4-sided shape (square) because the exterior angles are $360^\circ \div 4 = 90^\circ$ — not acute.
- b) Choose any value of n such that $-1 < n < 0$, e.g. $n = -0.2$
 $\Rightarrow \frac{n}{n+1} = \frac{-0.2}{-0.2+1} = \frac{-0.2}{0.8} = -0.25$ which is less than 0.
[1 mark]
- c) E.g. $n = 23 \Rightarrow n + 2 = 25$, $n + 4 = 27$ and 25 and 27 are not prime [1 mark].
You could also have chosen $n = 31$ and $n = 47$.
- 5 $E \propto x^2 \Rightarrow E = kx^2 \Rightarrow 7\sqrt{2} - 9 = k(\sqrt{2} - 1)^2$ [1 mark]
 $(\sqrt{2} - 1)^2 = 2 - 2\sqrt{2} + 1 = 3 - 2\sqrt{2}$ [1 mark]
 $k = \frac{7\sqrt{2} - 9}{3 - 2\sqrt{2}} \times \frac{3 + 2\sqrt{2}}{3 + 2\sqrt{2}}$ [1 mark]
 $= \frac{21\sqrt{2} - 27 + 28 - 18\sqrt{2}}{9 - 8} = 1 + 3\sqrt{2}$ [1 mark]
When $x = \sqrt{2}$ m,
 $E = (1 + 3\sqrt{2})(\sqrt{2})^2 = 2(1 + 3\sqrt{2}) = 2 + 6\sqrt{2}$ joules. [1 mark]
[5 marks available in total — as above]
- 6 a) i) $x^2 - 8x + y^2 + 4y - 29 = 0$
 $\Rightarrow (x - 4)^2 - 16 + (y + 2)^2 - 4 - 29 = 0$ [1 mark]
 $\Rightarrow (x - 4)^2 + (y + 2)^2 = 49 \Rightarrow$ centre X is $(4, -2)$ [1 mark]
[2 marks available in total — as above]
- ii) Radius $= \sqrt{49} = 7$ [1 mark]
You could also have put the circle equation into the form $x^2 + 2gx + y^2 + 2fy + c = 0$ and then the centre is at $(-g, -f)$ and the radius is $\sqrt{g^2 + f^2 - c}$.

- b) $P(-16, 13)$, $X(4, -2)$ and Y form a right-angled triangle, because a tangent (PY) meets a radius (XY) at 90° .
Length of $PX = \sqrt{(-16 - 4)^2 + (13 - (-2))^2} = \sqrt{(-20)^2 + 15^2} = \sqrt{625} = 25$ [1 mark]
Length of XY = radius = 7
 $PY^2 = PX^2 - XY^2 \Rightarrow PY^2 = 625 - 49$ [1 mark]
 $\Rightarrow PY^2 = 576 \Rightarrow PY = \sqrt{576} = 24$ [1 mark]
[3 marks available in total — as above]
- 7 a) $\frac{4x^2 + 8x + 3}{4x^2 - 9} = \frac{(2x + 3)(2x + 1)}{(2x + 3)(2x - 3)} = \frac{2x + 1}{2x - 3}$
[2 marks available — 1 mark for factorising the numerator or denominator correctly, 1 mark for the correct answer]
- b) $\log_4(4x^2 + 8x + 3) - \log_4(4x^2 - 9) = 2$
 $\Rightarrow \log_4\left(\frac{4x^2 + 8x + 3}{4x^2 - 9}\right) = 2$ [1 mark]
 $\Rightarrow \log_4\left(\frac{2x + 1}{2x - 3}\right) = 2 \Rightarrow \frac{2x + 1}{2x - 3} = 4^2$ [1 mark]
 $\Rightarrow 2x + 1 = 9(2x - 3) \Rightarrow 2x + 1 = 18x - 27$ [1 mark]
 $\Rightarrow 16x = 28 \Rightarrow x = \frac{7}{4}$ or 1.75 [1 mark]
[4 marks available in total — as above]
- 8 a) Point A is a (stationary) point of inflection [1 mark] as e.g. the graph goes from convex to concave [1 mark].
[2 marks available in total — as above]
- b) $f(x)$ doesn't have an inverse (unless the domain is restricted) because $f(x)$ is many-to-one, not one-to-one. [1 mark]
Alternatively, you could have said that $f^{-1}(x)$ cannot be one-to-one, or that $f^{-1}(x)$ would be one-to-many.
- c) i) $f(x - 1)$ is a translation of $\begin{pmatrix} 1 \\ 0 \end{pmatrix}$
 $\Rightarrow B$ has coordinates $(p + 1, q)$ [1 mark]
- ii) $3f(2x)$ is a stretch parallel to the x -axis of scale factor $\frac{1}{2}$ then a stretch parallel to the y -axis of scale factor 3
 $\Rightarrow B$ has coordinates $\left(\frac{p}{2}, 3q\right)$ [1 mark]
- d) i) $f'(x) = 12x^3 - 6x^2$ [1 mark]
The turning points are found at $f'(x) = 0$
 $\Rightarrow 6x^2(2x - 1) = 0$ [1 mark] $\Rightarrow x = 0$ and $\frac{1}{2}$
From the graph, p is positive, so $p = \frac{1}{2}$ [1 mark]
and $q = 3\left(\frac{1}{2}\right)^3 - 2\left(\frac{1}{2}\right)^2 = 2 = -\frac{7}{8}$ or -2.0625 [1 mark]
[4 marks available in total — as above]
- ii) $f'(x) = 36x^2 - 12x$ [1 mark]
When $x = \frac{1}{2}$, $f'(x) = 36\left(\frac{1}{2}\right)^2 - 12\left(\frac{1}{2}\right) = 3$, which is greater than 0 so B is a minimum [1 mark].
[2 marks available in total — as above]
- e) $y = |f(-x)|$ is a reflection of $y = f(x)$ in the y -axis, and a reflection in the x -axis of the part of the graph where $y < 0$.



[2 marks available — 1 mark for each correct transformation]

- 9 Let the radius of the cylinder be r .
Then the area of triangle $ABC = \frac{1}{2}r^2 \sin 1.02 = 85.9$ [1 mark]
 $\Rightarrow r = \sqrt{\frac{2 \times 85.9}{\sin 1.02}} = 14.199 \dots$ cm [1 mark]
Arc length $= r\theta = 14.199 \dots \times 1.02 = 14.483 \dots$ cm [1 mark]

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