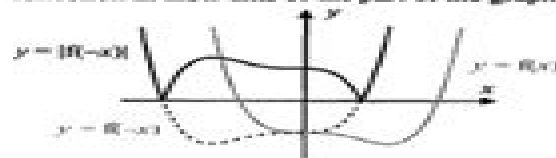# Answers

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

   $\frac{\sin ACB}{9} = \frac{\sin 24°}{5} \Rightarrow \sin ACB = \frac{9 \sin 24°}{5} = 0.7321...$
   $\Rightarrow$ Angle $ACB = \sin^{-1}(0.7321...) = 47.06...°$ or $180° - 47.06...°$
   $\Rightarrow$ Angle $ACB = 47.1°$ (1 d.p.) or Angle $ACB = 132.9°$ (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) $(\sqrt{2} x^{\frac{1}{2}})^4 = \sqrt{2}^4 x^{\frac{1}{2} \times 4} = 8x^2$
       [2 marks available — 1 mark for an answer in the form kx^a or $8x^a$, 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 $360° \div 3 = 120°$ which is not acute.
       [1 mark].
       You could also have chosen a regular 4-sided shape (square) because the exterior angles are $360° \div 4 = 90°$ — 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
       $PY^2 = PX^2 - XY^2 \Rightarrow PY^2 = 625 - 7^2$ *[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) $\log_c(4x^2 + 8x + 3) - \log_c(4x^2 - 9) = 2$
       $\Rightarrow \log_c\left(\frac{4x^2 + 8x + 3}{4x^2 - 9}\right) = 2$ *[1 mark]*
       $\Rightarrow \log_3\left(\frac{2x + 1}{2x - 3}\right) = 2 \Rightarrow \frac{2x + 1}{2x - 3} = 3^2$ *[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 $\binom{1}{0}$
          $\Rightarrow B$ 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 $q = 3\left(\frac{1}{2}\right)^4 - 2\left(\frac{1}{2}\right)^3 - 2 = -\frac{33}{16}$ 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]*
   $\Rightarrow r = \sqrt{\frac{2 \times 85.9}{\sin 1.02}} = 14.190...$ cm *[1 mark]*
   Arc length $= r\theta = 14.199... \times 1.02 = 14.483...$ cm *[1 mark]*

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