



The diagram above shows the graph of $y = f(x)$. On separate diagrams, sketch the graph of

- (i) $y = f(1-2x)$. [2]
- (ii) $y = f\left(\frac{x}{2}\right)$. [2]
- (iii) $y = 2f(x) + 1$. [2]

showing in each case, the coordinates of the points corresponding to A, B, C and the equations of the asymptotes.

[2010/8/1988/Prelim/12/2]

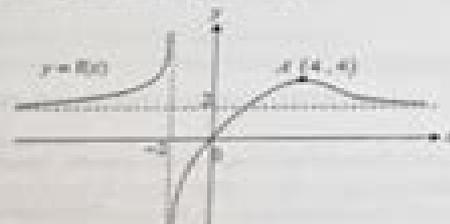
- (a) A curve has equation $\frac{y^2}{4} - \frac{2x - 4y^2}{9} = 1$.
Sketch the curve, stating the equations of the asymptotes and the coordinates of the vertices. [2]

[2010/8/1988/Prelim/12/1/2]

- (b) State a sequence of transformations which transforms the graph of $y = \sin x$ to the graph of $y = \sin\left(2x - \frac{3}{2}\pi\right)$. [2]

[2010/8/1988/Prelim/12/1/2]

- 3. The diagram below shows the graph of $y = f(x)$. The curve passes through the origin and has a maximum point at $A(4, 4)$ and asymptotes $x = -2$ and $y = 2$.



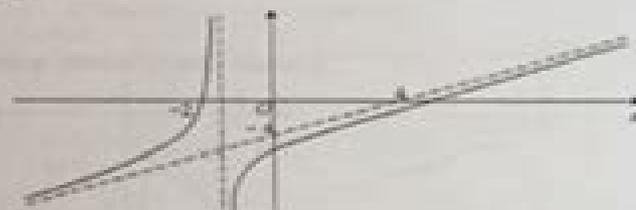
Sketch on separate diagrams, the graphs of

- (i) $y = \frac{1}{f(x)}$. [2]
- (ii) $y^2 = f(x)$. [2]
- (iii) $y = f'(x)$. [2]

showing clearly asymptotes, intercepts and coordinates of turning points where applicable.

[2010/8/1988/Prelim/12/1/2]

- 4. The diagram below shows a sketch of the graph of $y = \frac{ax^2 + bx + c}{x + d}$ where a, b, c and d are constants. The asymptotes, also shown in the diagram, are $x = -2$ and $y = x - 4$.



- (i) Write down the value of d and find the values of a and b . [2]
- (ii) Given that the curve passes through the point $(5, -4.5)$, find the value of c . [2]
- (iii) By sketching the graph of $(x - 4)^2 + y^2 = k^2$, determine the range of values of k such that the equation $(x - 4)^2 + \left(\frac{ax^2 + bx + c}{x + d}\right)^2 = k^2$, where a, b, c and d are the values found above, has at least one negative root. [2]

[2010/8/1988/Prelim/12/1/2]

Keytrain Math Practice Manual

Katrin Zwirgmaier



Keytrain Math Practice Manual:

Keytrain Math Practice Manual Book Review: Unveiling the Power of Words

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