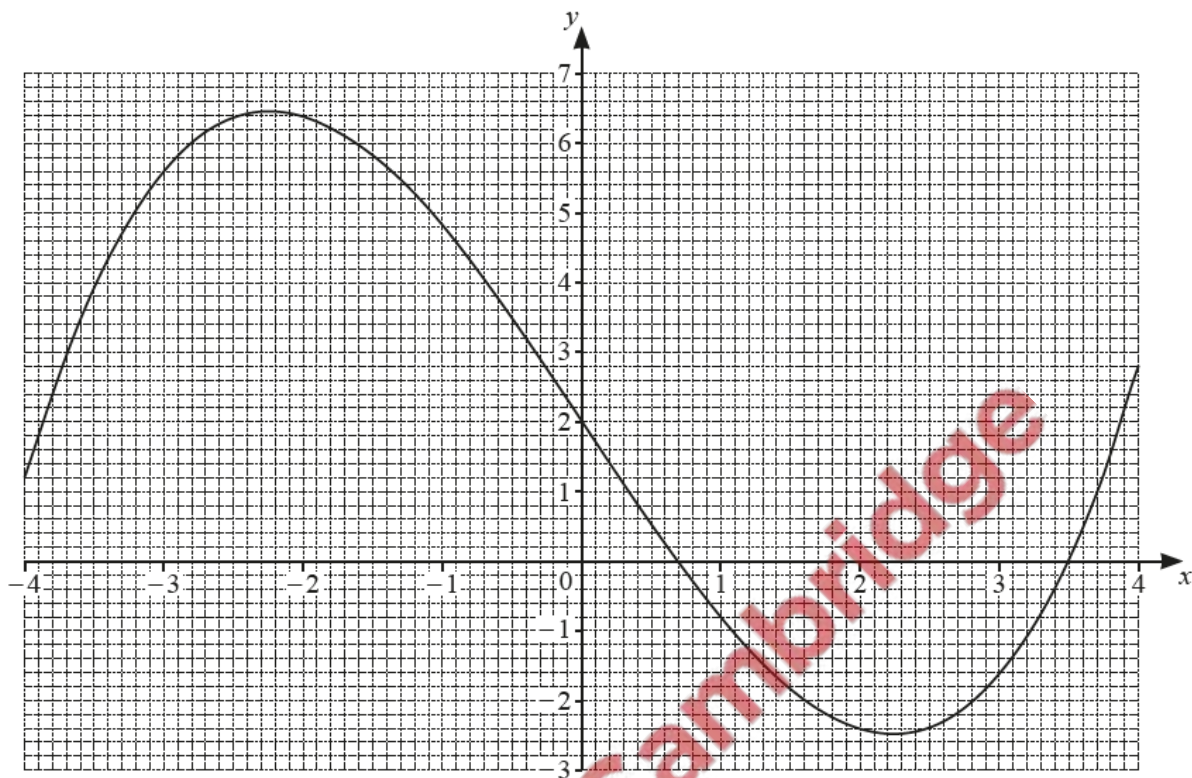


1. June/2022/Paper_12/No.16

The graph of $y = \frac{x^3}{5} - 3x + 2$ is drawn on the grid.



(a) By drawing a tangent, estimate the gradient of the curve at $x = -1$.

..... [2]

(b) By drawing a suitable straight line on the graph, find the solutions of the equation $\frac{x^3}{5} - 3x = 0$.

..... [3]

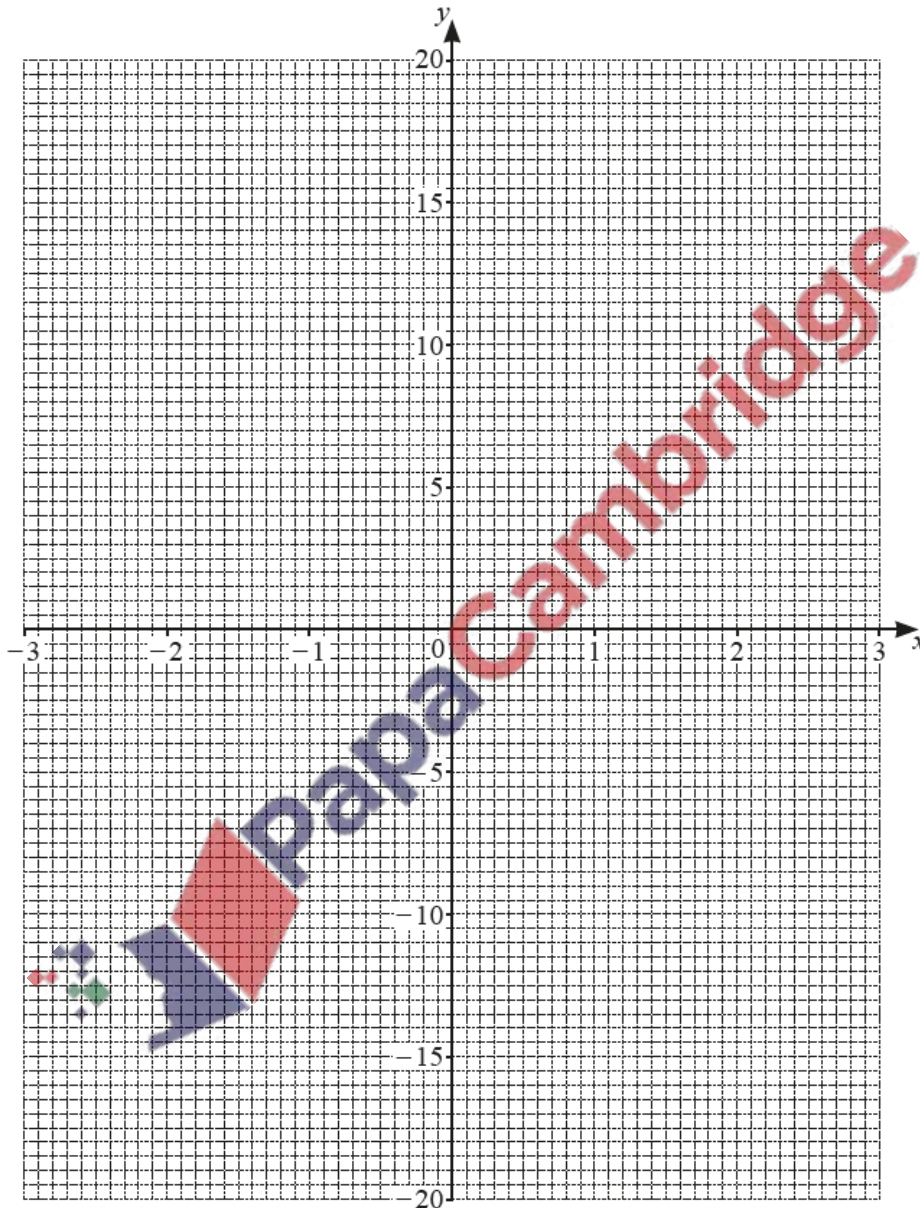
2. June/2022/Paper_21/No.5

(a) Complete the table of values for $y = x^3 - 4x + 3$.

x	-3	-2	-1	0	1	2	3
y		3	6	3	0	3	18

[1]

(b) Draw the graph of $y = x^3 - 4x + 3$ for $-3 \leq x \leq 3$.



[3]

(c) By drawing a suitable straight line on your graph, find the solutions of the equation $x^3 - 4x - 2 = 0$.

$x = \dots\dots\dots$ or $x = \dots\dots\dots$ or $x = \dots\dots\dots$ [3]