

S. 3 MATHS HOMEWORK.

1. Without using mathematical tables or calculator, evaluate $\sqrt[4]{1296}$.
2. If $g(x) = x + 2$ and $h(x) = 2x^2 - 3$, find (i) $hg(x)$, (ii) $hg(-2)$.
3. Evaluate $0.00437 \div 0.0388$ using a mathematical table and correct the answer to 3 significant figures.
4. (a) Make a table of values for the curve $y = 2x^2 - 3x - 5$ for $-3 \leq x \leq 4$.
(b) Using a scale of 2 cm for 1 unit on the x-axis and 2 cm for 5 units on the y-axis, draw the graph of $y = 2x^2 - 3x - 5$ for $-3 \leq x \leq 4$.
(c) Using the graph in (b) above, solve the equation $2x^2 - 3x - 5 = 0$.
5. If $n(\xi) = 15$, $n(M) = 7$, $n(E) = 9$ and $n(M' \cap E') = 2$, find $n(M \cap E)$.

End.