Secondary Puzzle Page

Same Surface, Different Depth Problems

These linked problems are taken from Craig Barton's excellent website:
https://ssddproblems.com/the-cubic-equation/

Show that the equation $x^3 - 7x + 5 = 0$ has a solution between $x = 2$ and $x = 3$	$f(x) = x^3 - 7x + 5$ $g(x) = x - 1$ Find $fg(x)$
Let $x_{n+1} = x_n^3 - 7x_n + 5$ Given that $x_0 = 2$, find x_3 to 3 significant figures	Find the remainder when $x^3 - 7x + 5$ is divided by $(x - 5)$ *[Further Maths GCSE]*