The original problem 2C did not specify that n must be greater than 1.
Therefore, the answer was 459, 566,406 – the product of two 5-digit numbers
This was an unintended exercise in number crunching without a calculator.
Everyone was given credit for the problem.

$a + b = 42875$ and $a - b = 1$ ➔ $(a, b) = (21438, 21437)$ ➔ $ab =$ **459,566,406**.
With the added condition n > 1, the original answer/solution is correct.

Problem 4B:
The solution rejected $x = -4$ since substitution in the original equation required taking the base 2 logarithm of a complex number $(2i)$ which is not defined in algebra 2.
Thus, simplifying the equation to $x^2 - 12x + 64 = 0$ invokes the rule $a^{\log_a x} = x$. In algebra 2, there is a restriction that $x > 0$.
Appeal submitted by coach of student who was taking a Complex Variables course that both answers should be accepted is denied. Actual written appeal of student never sent to me.