

2. Simplify $\frac{12 \times 5^{2n-1} - 2 \times 25^n}{25^{n+1} - 20 \times 5^{2n-1}}$ where n is a positive integer.

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3. Without using a calculator, find the values of the following expressions, and express your answers in scientific notation.

(a) $(9.65 \times 10^8 + 3.5 \times 10^7) \times 0.0004$

(b) $0.5 \times 10^{-10} - 6.84 \times 10^{-11}$

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4. Convert the denary number $6 \times 2^6 + 2^4 + 3 \times 2^2 - 2^2$ to a binary number.

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END OF ASSIGNMENT