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3 Exam Questions
Yr 1 – Exponentials and Logarithms – Log Laws

(1) Given that $\log_{10} p = A$ and $\log_{10} q = B$, use the laws of logs to simplify $\log_{10}\left(\frac{100p}{q^3}\right)$

(2) Find the exact solution to the equation:
$\log_3(2x^2) - 1 = \log_3(x)$

(3) Solve the equation:
$2^{x+1} = 5^{1-x}$
Give your answer to 3SF.

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