

February 2009

An Integral

Integrate $\int \frac{\sqrt{1+x} + \sqrt{1-x}}{\sqrt{1+x} - \sqrt{1-x}} dx$. Be sure to show all steps.

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Latin Squares

An $n \times n$ matrix is called a Latin square if each of the integers $1, 2, \dots, n$ occurs exactly once in each row and column. Find the number of distinct 4×4 Latin squares.