Round 1

Differentiate this: You are to differentiate the expression. Correct questions will be of the form “What is the antiderivative of f’(x)?”

Men in Mathematics
Mathematical Objects
Fundamental Theorems
Enumeration

Differentiate This
$100 \ 2x$
$200 \ cos(x)$
$300 \ \frac{1}{x}$
$400 \ 2^x \ln(2)$
$500 \ x^x(\ln(x) + 1)$

Men in Mathematics
$100 \ Isaac Newton$
$200 \ Evariste Galois$
$300 \ Carl Friedrich Gauss$
$400 \ Leonhard Euler$
$500 \ Cedric Villani$

Mathematical Objects
$100 \ Sphere$
$200 \ Graph$
$300 \ Cauchy Sequence$
$400 \ Analytic function$
$500 \ Algebraic Variety$

Fundamental Theorems
$100 \ Fundamental Theorem of Calculus$
$200 \ Fundamental Theorem of Arithmetic$
$300 \ Fundamental Theorem of Algebra$
$400 \ Fundamental Theorem of Finite Abelian Groups$
$500 \ Fundamental Theorem of Galois Theory$

Enumeration
$100 \ 12$
$200 \ 20$
$300 \ 64$
$400 \ 10$
$500 \ 5$
Round 2
Integrate that: You are to integrate the given expression.
Correct questions will be of the form “What is the derivative of F(x)?”

Women in Mathematics
Who proved it?

Integer Sequences
Proper Name Adjectives

Integrate That
\[ \frac{x^3}{3} \]
$100 \frac{x^3}{3}$
$200 \sin(x)$
$300 \arcsin(x)$
$400 \ln(\sec(x))$
$500 x\ln(x)-x$

Women in Mathematics
$100$ Maryam Mirzakhani
$200$ Sophie Germain
$300$ Ada Lovelace
$400$ Emmy Noether
$500$ Julia Robinson ne Bowman

Who proved it?
$100$ Euclid
$200$ Andrew Wiles
$300$ Leonhard Euler
$400$ Paul Cohen
$500$ Johann Bernoulli

Integer Sequences
$100$ Squares)
$200$ Fibonacci sequence
$300$ Triangular numbers
$400$ Perfect Numbers
$500$ Catalan numbers

Proper Name Adjectives
$100$ Abelian
$200$ Eulerian
$300$ Hamiltonian
$400$ Euclidean
$500$ Noetherian
Final Jeopardy
Category: Ramanujan

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