

Subject – Math (Standard Level)
 Topic – Calculus
 Year – Nov 2011 – Nov 2019
 Paper -1

Question 1

evidence of anti-differentiation

(M1)

e.g. $\int f'(x), \int (3x^2 + 2) dx$

$f(x) = x^3 + 2x + c$ (seen anywhere, including the answer)

ATAT

Attempt to substitute (2, 5)

(M1)

e.g. $f(2) = (2)^3 + 2(2), 5 = 8 + 4 + c$

finding the value of c

(A1)

e.g. $5 = 12 + c, c = -7$

$f(x) = x^3 + 2x - 7$

A1

NS
 [6 marks]

May 2011 Math SI Paper 1 Memo

Persi Diaconis, Jason Fulman



May 2011 Math SI Paper 1 Memo:

The Mathematics of Shuffling Cards Persi Diaconis, Jason Fulman, 2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards

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