

Chapter 1

INTEGRATION

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1.1 INTEGRATION AS ANTI-DERIVATIVE

The integral calculus is concerned with the operation of integration, which is the reverse of differentiation. From this point of view, integration is : **What is the function which on being differentiated produces a given function?**

For instance, what is the function which on differentiation yields $\cos x$?

In this case, we know from the topic of differentiation that ' $\sin x$ ' is the required function. Thus, we conclude that $\sin x$ is the integral of $\cos x$.

Generally, if $f'(x)$ represents the differential coefficient of $f(x)$, then the problem of integration is, given $f'(x)$ what is $f(x)$? Or given $\frac{dy}{dx}$, what is y ?

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Frank Ho, Amanda Ho

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earlier the students could master the skills of four basic operations the more the students could explore many possibilities of word problem computation problems With this in mind how does the very popular Math Kangaroo Contest test the grade 1 and grade 2 students How is it different from other math contests The Math Kangaroo grades 1 and 2 Contest almost does not include the direct math computation problems which are very different from the math contests in China where direct computation problems could include skillful computation problems I analyzed the most recent years of Canadian Math Kangaroo Contest grade 1 and 2 problems and they start to emerge some characteristics and categories so I include here to help students prepare for it The lower grade math contest tends to skew to the more visual operation type of problems The problems could be classified as follows Arrangement and sorting numbers Patterns of figures and numbers Counting figures or shapes or paths Cubes or cards math including rotation or folding Identifying parts of a figure or finding what part of a figure is missing Number puzzles including filling numbers into empty spaces Logic and reasoning problems Word problems Including some Chinese model problems All other problems which do not belong to the above Many of the above problems are not typical problems appeared in the books where you can buy from a bookstore because the problems in the math contests are much more complicated and involve a lot of creativities The above subjects are now included in this workbook Our math contest books are suitable for preparing the following math contests or competitions Worldwide Math Kangaroo Contests USA Mathcounts USA Math Olympiad Mathleague Math Contest Canada BC Elmacon Math Contest Canadian Math Challengers Competition Canadian Gauss Pascal Mathematics Mathematica Phythagoras Euler Langrange Newton contests Worldwide Caribou Mathematics Online Contest USA Brock University Chinese math contests Many countries math competitions Worldwide Math Kangaroo Contests

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