



INTISARI

INTEGRAL - DERIVATIF FRAKSIONAL DAN APLIKASINYA

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Pada tugas akhir ini dibahas integral dan derivatif fraksional, yaitu integral dan derivatif dengan orde tidak selalu bilangan bulat, khususnya orde bilangan real. Berdasarkan definisi integral dan derivatif fraksional, ditinjau hubungan integral dan derivatif fraksional dengan integral dan derivatif biasa, sifat - sifat serta rumusan integral dan derivatif fraksional fungsi pangkat, fungsi konstan dan fungsi eksponensial. Selanjutnya, diberikan aplikasi integral dan derivatif fraksional.



ABSTRACT

FRACTIONAL INTEGRALS - DERIVATIVES AND APPLICATIONS

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In this final project, we discuss about fractional integrals and derivatives, that are integrals and derivatives with order is not always integer, in particular real order. By using their definitions, we investigate the connection between fractional integrals and derivatives with elementary integrals and derivatives, some properties of each and formula fractional integrals and derivatives for power, constant, and exponential function. Furthermore, we give some applications of fractional integrals and derivatives.