## 6 INTEGRÁLNÍ POČET

### Primitivní funkce. Neurčitý integrál

Definice 6.1. Jestiče pro funkce P(x) n fuć dešnované na otavčeném intersulla J-platiF'(x) = f(x) pro-kabbe  $x \in J$ . Riskem,  $2\pi F(x)$  je primitivnii funkca by Superioral Rocks and Life.

Věta 6.1. Je-5 f)/C spojitá na J pak k ni existuje na J funkce primitivní

Je-8 F(x) primitami k funkcii f(x) ne J's C libovolné číslo, pak pFog = Cg' = F' pig = 800.

takte i kažida funkce P(x) \* C je na J'k funkci fód prinstvesi.

Definice 6.2. Množinu všech primitivnich funkci k funkci. (Lx): na J nazýváme neurálký integrál funkce f(x). Příleme - (f(x) dx × F(x) + C - a mazýváme dr .... integrabni znak, . f.kl.... integrand, ...C.... integrabni konstanta.

za-ti integrand ve tvoru součtu, pišleme v integračnim znaku obvykle zduciki. map#. ((x + sin x) dx. Ja-k ve tveru součinu, závorku sepiteme – např. (x sin x dř.

Nadopeni primitivni funkce nazývárne integravání. Je to opek derivování, Ne ni to vitak tak pednoduché, protože neznáme obecná plane voorce pro integral soudine a podile a pro integraci sindente funica.

Proposition se compatime na tra: primore integraci pomoci visances pro integrali integrati pomoci visatnosti pra primore integrati pomoci visatnosti pra primore propositione p

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Atty byto risibné použe pastadní vzorce, je většanou třeba integrand uprávy. Nagricial registration his duti abordly nebb registrobenim.

 $\text{Printed 4.3. } \left[ \frac{2x^2-1}{x} dx + \right] \frac{2x^2}{x} + \frac{1}{x} dx = - p + p \geq - x = 2 \int x \, dx + \int \frac{1}{x} \, dx = - \frac{1}{x} d$ 

$$= -\sqrt{2} \sqrt{2} - 2 \frac{x^2}{2} - |w(x)| + x^2 - |w(x)| + C$$

Product 6.6.  $\int d\left(\sqrt{x}-\frac{1}{x^2}\right)dx=\int \left(x\sqrt{x}-\frac{1}{x^2}\right)dx=-P1\dots =\int x^{\frac{1}{2}}dx-\int x^{-1}dx=$  $+...(v2) - \frac{v^2}{8} - \frac{v^2}{4} - \frac{2}{8} \sqrt{v^2} + \frac{1}{8} + C \, .$ 

Casto poubvisnou úpravou ja rozbítení integrované funkce uhodnou konstju-

Principal S.P. 
$$\frac{1-x}{x^2+x}$$
 (in

Reteni. Abychom mohi poučil V6. musi být v čitateli plomiku demosce jeho promovatele. V tomto případě 2x. Rozšířine proti funkci 2.

Destarante 
$$\frac{1}{2}\int \frac{2\pi}{\pi^2+1}d\pi = -VB = \frac{1}{2}B[\pi^2+1]+C$$

Racionami nerype tomené funkce je třeba rozlože.

Printed 6.8.  $\int \frac{x^2}{x-2} \, dx$ . Referri, Je to integril 2 nerype tomeral racionáni funkce, proto nejdříve pro-

at termingential product

$$V \ge \int \frac{1}{x} dx = \ln[x] + C$$

$$\mathbf{V} \triangleq \int \frac{f''(x)}{f(x)} dx = \ln |f(x)| = G$$

$$V = \int f(ax + b)da = \frac{1}{4} f'(ax + b) + C$$

$$\begin{split} & \text{PFBaned 6.1.} \quad \int [0.e^{x} - 3.e^{x} - 4] dx = ... \text{Pf...} = \int 0.e^{x} dx = \int 3.e^{x} dx - \int 4.dx = ... \text{Pg...} = 0.0 \int e^{x} dx + 3 \int e^{x} dx - 4 \int 1 dx = ... \text{Ng. Vf...} = \\ & = 0... \frac{e^{x}}{4} + G_{0} + 3... \frac{e^{x}}{3} + G_{0} - 4... e + G_{0} = 2e^{x} + e^{x} - 4e + G. \end{split}$$

integračni konstantu zapisujeme obvytke až po ukončeni integrace a úpravalida výrskedná funkce.

Printed 6.2:

$$||f(x+2^*)dx - ||F|| = ||f||^2 dx + ||f||^2 dx - ||VZ|VT|| + \frac{x^2}{4} + \frac{2^*}{8*2} + \frac{3}{4} x V x + \frac{2^*}{8*2} + C$$

Printed 6.3. 
$$\int \frac{\cos x}{\sin x + 2} dx = -\sqrt{6} - \sin \left[ \sin x + 2 \right] + C$$

V9 je vzorec pro integraci speciálního tvaru složené tunkce. Používárne ho v kombinaci s ostatnimi vzorzi.

Printed 6.4. a) 
$$\int e^{2\pi x} dx = VR/VE. = \frac{1}{2}e^{2\pi x^2} + C.$$

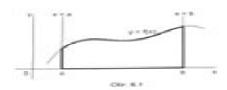
$$0) \cdot \int \frac{1}{\sqrt{4x+5}} \, dx = \int (4x+5)^{\frac{1}{2}} \, dx = ... \forall 8, \forall 2... = \frac{1}{4} \frac{(4x+5)^{\frac{1}{2}}}{\frac{1}{2}} = \frac{1}{2} \sqrt{4x+5} = G.$$

magnetical published

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#### 6. 2 Určitý integrál

Historickow motivaci zvo warnik imbegrillimites poolby byte pavedení pojmu urbitne integratiu. Citolem byte urbit obsula Advenduction introduction har Nogrive se tak ploons tobe 6.15 onrandens Milvkou y + fixt. minor is a private and like it as a rela-



Definice 6.3. Necht funkce (x) je spojitá na uzavřenom intervelu (x,b) Newstoniù verdity integrit od e do à z funkce f(x) je dista F(tt) - F(x), kde F(x) je funkcia primitivni k funkci für) nu intervalu (x,tr). Pribeme

Cisto a nazýváme dolní integrační mez, číslo č homí integrační mez

# <u>Problema Simmetriia Integraly Dvizheniia V</u> <u>Analiticheskoi Dinamike</u>

**PT Brinkman** 

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