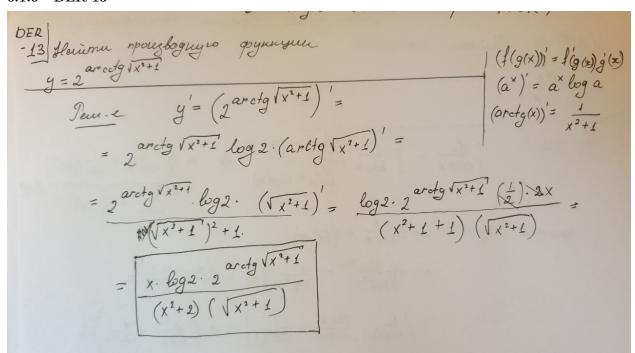
#### 6.1.6 DER-13



## 6.2 Интегралы

### 6.2.1 Таблица интегралов

#### 6.2.2 INT-3

INT-3. Hammu numerpan

$$\int \frac{dx}{x^{\frac{4}{4}-1}} = \frac{1}{2} \int \left(\frac{1}{x^{\frac{2}{4}-1}} - \frac{1}{x^{\frac{2}{4}+1}}\right) dx =$$

$$= \frac{1}{4} \ln \left|\frac{x-1}{x+1}\right| - \frac{1}{2} \operatorname{arctg} x + C$$

Ornlem:  $\frac{1}{4} \ln \left|\frac{x-1}{x+1}\right| - \frac{1}{2} \operatorname{arctg} x + C$ 

#### 6.2.3 INT-4

А в int-4 нельзя сказать, что это сумма  $1/\sqrt{1+x^2}$  и  $1/\sqrt{1-x^2}$ , то есть арксинус плюс аркшинус ?

#### 6.2.4 INT-5

$$\int (5^{x} - 2^{x})^{2} dx. = \int (25^{x} - 2.10^{x} + 4^{x}) dx =$$

$$= \frac{25^{x}}{\ln 25} - 2 \frac{10^{x}}{\ln 10} + \frac{4^{x}}{m.4} + C$$

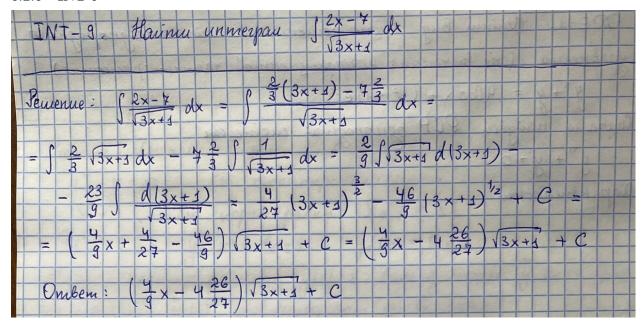
$$4. \int a^x dx = \frac{a^x}{\ln a} + C;$$

miro

#### 6.2.5 INT-7

$$\int x(x-2)^{5} dx. = \int (+2) + \int d +$$

# 6.2.6 INT-9



# 6.2.7 INT-12

Занести  $e^x$  под дифф. Замена 1 + t / 1 - t dt

#### 6.2.8 INT-14

INT-14. Hairme were spece 
$$\int \frac{dx}{\cos x} \times \int \frac{dx}{\cos x} = \int \frac{1}{\cos x} + \frac{1}{\cos$$

## 6.2.9 INT-15

MARTIN (MITERPA)

3 AMERICAN, (7H (9(N)))

3 AMERICAN, (7H (9(N)))

3 L (ctg(N)) = - (ctg(N))

3 L (ctg(N)) = - (ctg(N))

3 L (ctg(N)) = - (ctg(N))

= 
$$\begin{vmatrix} 1 & 1 & 1 \\ 3 & 4 & 4 \end{vmatrix}$$

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

=  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

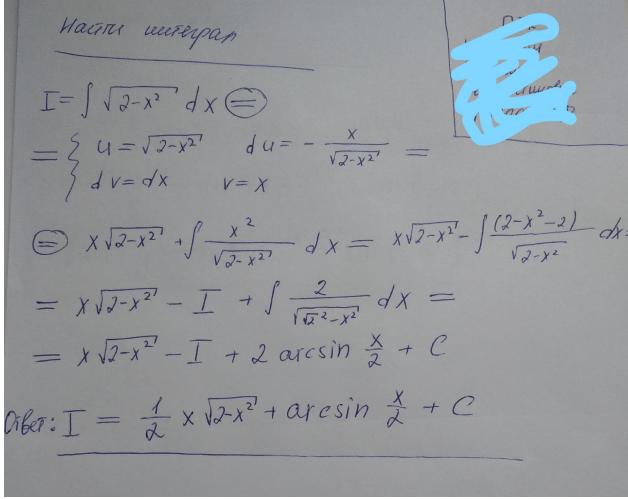
Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Therefore  $\begin{vmatrix} 1 & 4 \\ 4 & 4 \end{vmatrix}$ 

Th

#### 6.2.10 INT-?



Кажется, тут очепятка, и должно быть  $\arcsin \frac{x}{\sqrt{2}}$ .