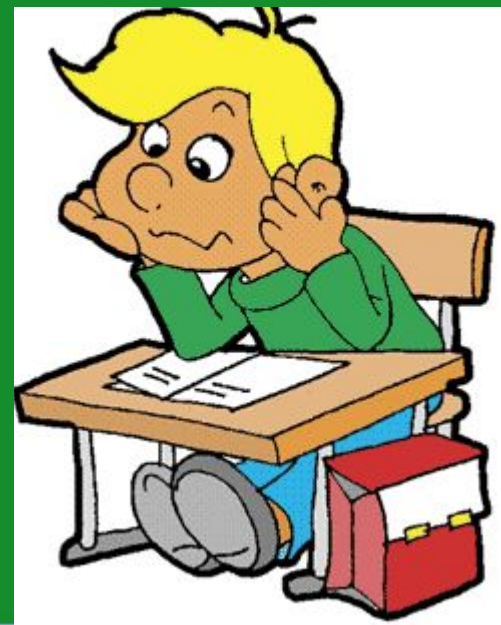


Математика - ғылымдар бастамасы



Ашылу салтанаты



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$u = \ln$$

$$u' = -\frac{1}{x}$$

$$I =$$

$$I =$$

$$I =$$

$$0 =$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \frac{\ln x}{\ln x} - \int -\frac{\ln x}{x^2} dx$$

$$\int \frac{1}{x \ln x} dx$$

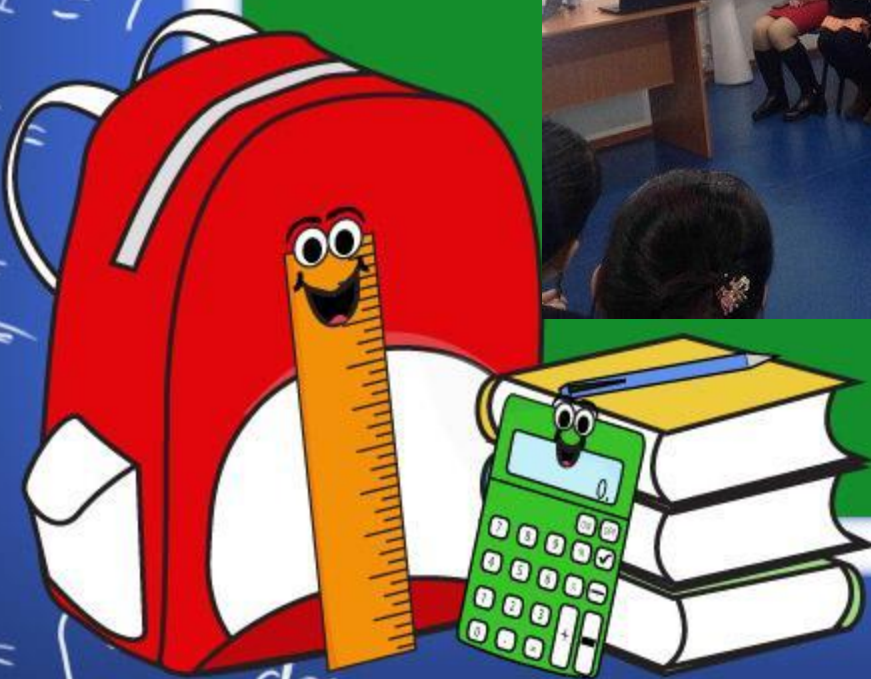
$$\frac{1}{\ln x} \quad v' = \frac{1}{x}$$

$$-\frac{1}{x} (\ln x)^{-2} \quad v =$$

$$\frac{\ln x}{\ln x} - \int$$

$$+ \int \frac{1}{x \ln x}$$

$$+ I$$





$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{\ln x}{x} dx = \frac{\ln^2 x}{2} + C$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x|$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln x + C$$

Поэзиялық кеш





$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

MATEM

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln x + C$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x} dx$$
$$v' = \frac{1}{x}$$
$$v = \ln x$$

ШАХМАТ



Сәнді фигуралар



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$= \ln|x| + C$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln|x|$$

$$\int \frac{1}{x} dx$$

$$\frac{1}{x \ln x}$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln|x|$$

$$\int \frac{1}{x} dx$$

$$\frac{1}{x \ln x}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$= \frac{1}{x} + C$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$\frac{1}{x \ln x}$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx = -\frac{1}{x} + C$$





$I = \int \frac{1}{x \ln x} dx$

$I = \int \frac{1}{x} dx$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$



$I = \int \frac{1}{x \ln x} dx$

$I = \int \frac{1}{x} dx$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^n} dx = \frac{x^{-n+1}}{-n+1} + C$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \frac{1}{2} (\ln|x|)^2 + C$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \ln|\ln|x|| + C$$

$I = \int \frac{1}{x} dx$
 $I = \int \frac{1}{x} dx$
 $I = \int \frac{1}{x} dx$
 $I = \int \frac{1}{x} dx$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\frac{1}{x \ln x}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x \ln x} dx$$

Математика өмірдің өзі КТК



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln|x|$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$v' = \frac{1}{x}$$

$$-2 v =$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$



$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx$$

1 этаж





$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$\int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x} dx$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$



$$\int \frac{1}{x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$u = \ln x$$

$$u' = \frac{1}{x}$$

$$I =$$

$$I =$$

$$I =$$

$$I =$$

$$I =$$

$$I =$$

$$I = \int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$\frac{1}{\ln x} \quad v' = \frac{1}{x}$$

$$\frac{1}{x} (\ln x)^{-2} \quad v =$$

$$\frac{\ln x}{\ln x} - \int$$

$$+ \int \frac{1}{x \ln x}$$

$$+ I$$

$$I =$$

$$I = \frac{\ln x}{\ln x} - \int -\frac{\ln x}{x^2}$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$



$$\int x dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x} dx = \ln x + C$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \frac{1}{2} (\ln|x|)^2 + C$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$\int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \frac{1}{2} (\ln|x|)^2 + C$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \frac{1}{2} (\ln|x|)^2 + C$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$\int \frac{1}{x} dx = \ln|x| + C$$

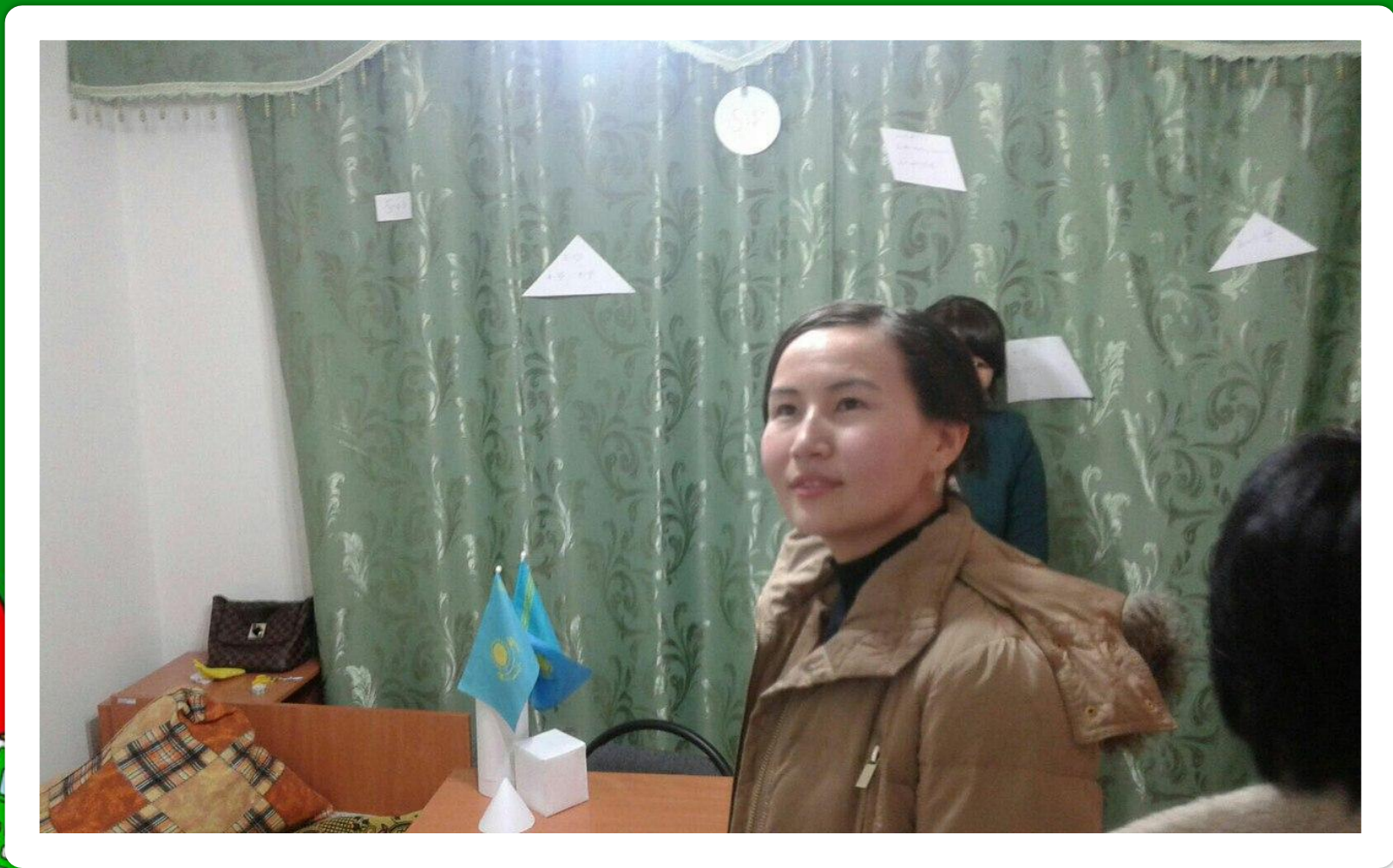
$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x \ln x} dx = \frac{1}{2} (\ln|x|)^2 + C$$

2 ЭТАЖ



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$= \ln(x) + C$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln(x)$$

$$\int \frac{1}{x} dx$$

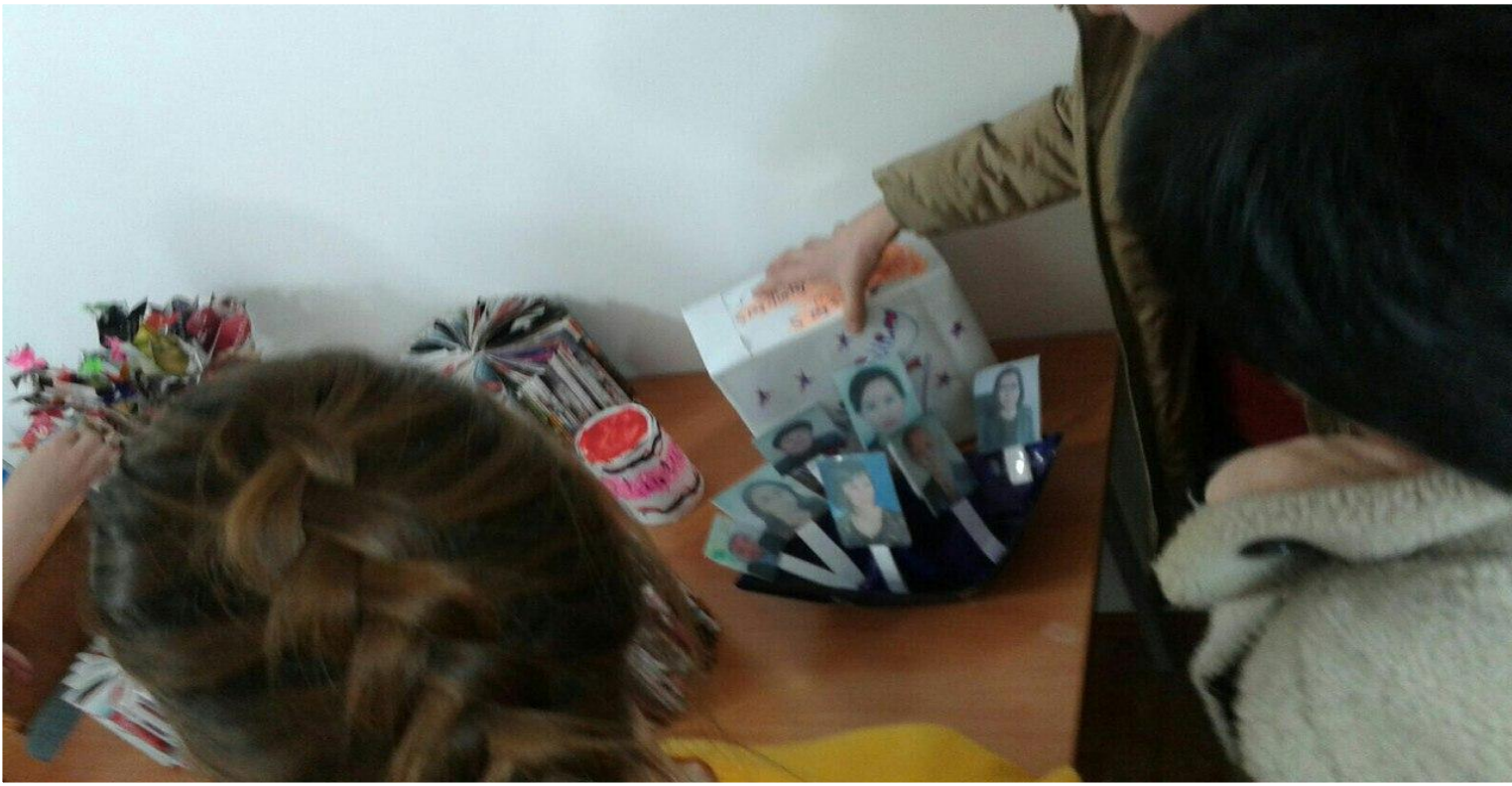
$$\frac{1}{x \ln x}$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$= \ln(x) + C$$



$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln(x)$$

$$\int \frac{1}{x} dx$$

$$\frac{1}{x \ln x}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$



$$I = \int \frac{1}{x} dx$$

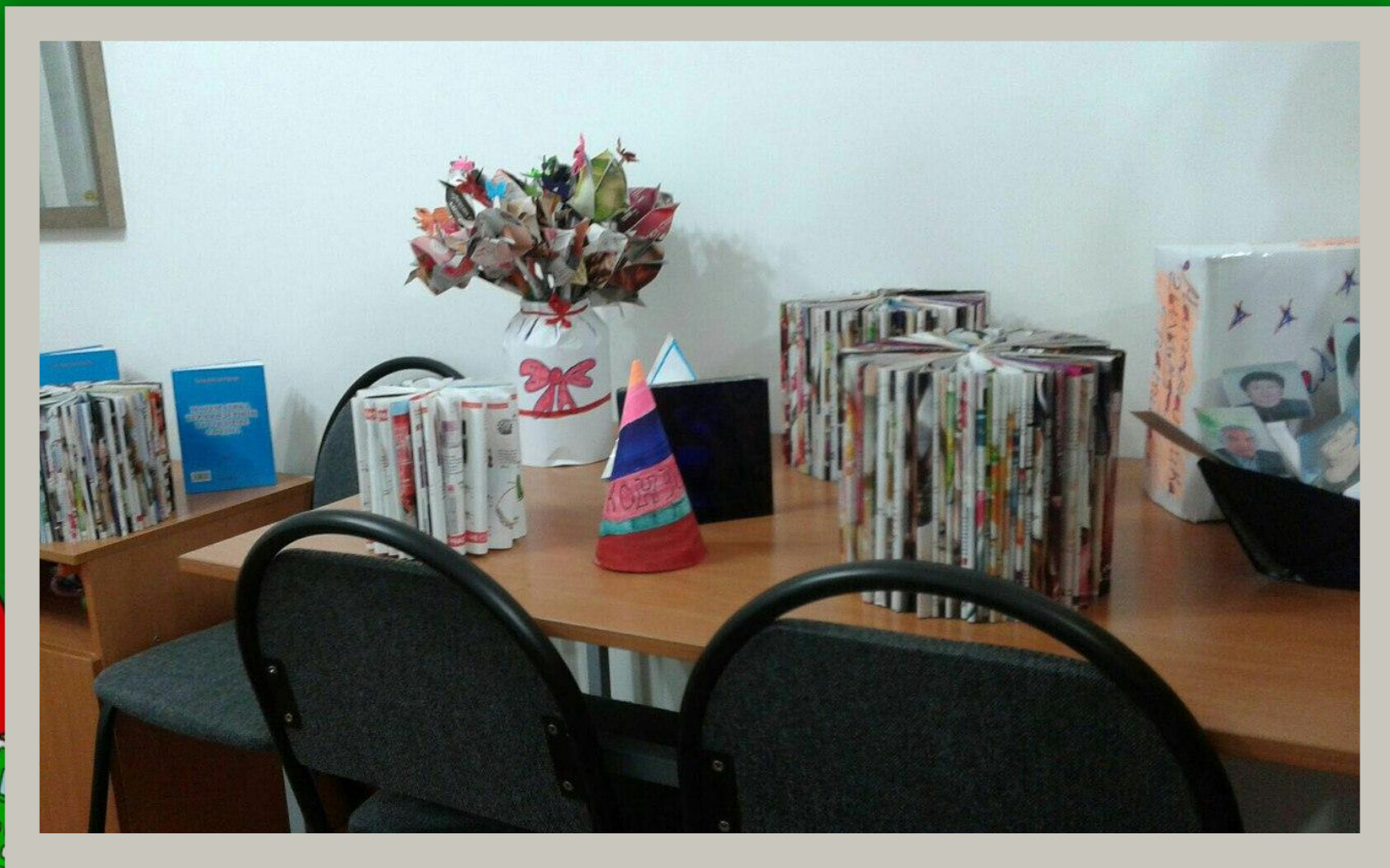
$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

3 ЭТАЖ



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$= \ln|x| + C$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$-2v =$$

$$\int \frac{1}{x \ln x}$$

$$\int \frac{1}{x \ln x}$$



$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x^2} dx$$



$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$u \cdot v - \int u'v + \int uv'$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

4 ЭТАЖ





$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$-2 v =$$

$$\int \frac{1}{x \ln x}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{\ln x} dx - \int \frac{h x}{x^2}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$I = \int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$



$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$

$$v = \ln|x| + C$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$-2 v =$$

$$\int \frac{1}{x \ln x}$$

$$I = \int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$



$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x^2} dx$$

$$\int \frac{1}{x^2} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$v' = -\frac{1}{x}$$

$$v = -\ln x$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

)))

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln x$$

$$\int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$\int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$



$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$
$$v = \ln|x|$$
$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$= \ln|x| + C$$

$$\int \frac{1}{x} dx$$

$$v' = \frac{1}{x}$$

$$v = \ln|x|$$

$$\int \frac{1}{x} dx$$

$$\ln|x|$$



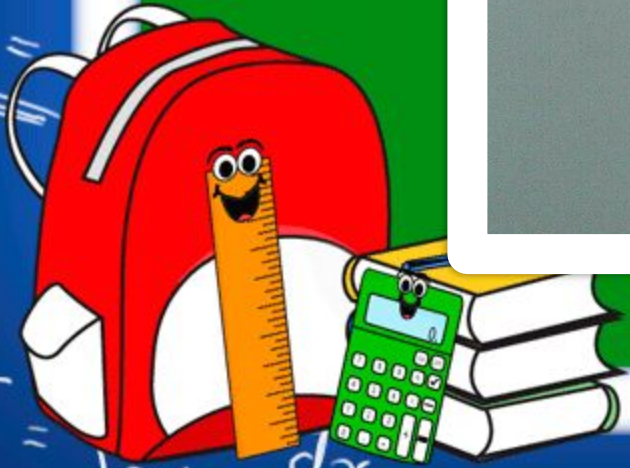
$$I = \int \frac{1}{x \ln x} dx$$

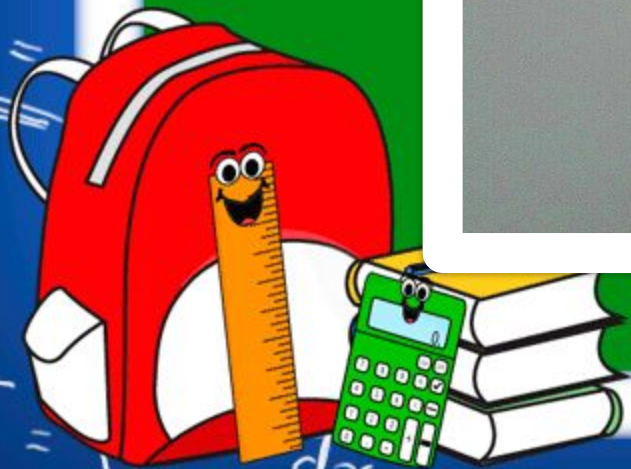
$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

6 ЭТАЖ







$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx$$

$$I = \int \frac{1}{x \ln x} dx$$

$$I = \int \frac{1}{x} dx = \ln|x| + C$$

$$v' = \frac{1}{x}$$
$$v = \ln|x| + C$$

Назарларыңызға рахмет !

