decisive N2 Jenerue Dyy I I ropedka Det sur gugo. yp. b z.n. 1-20 nopredre maj. yp.e Alag. xn) 1/2, + An (x, ... xn) 1/2 = G(xe, ... xn, 1) Ai - Herp go-un, unevous z. n 1-20 nopre dea, odnospen не обраси. в О. Однородные ур-я w (x,y) Qux + buy =0 dx = dy - yp-e xapaktepuctuk g(x,y)=C - persence yp-exop-k u(x,y) = G(g(x,y)) - odusee premercie ucx. gadaru. Jameranue 1 dx = dy => \ \begin{aligned} & \dx = \int \alpha \dy => \bx - \alpha y + C => \bx - \alpha y = C \end{aligned} a, b- const u(x,y) = G(Bx-ay) - onser. Q.G'(Bx-ay)x+BG'(Bx-ay)y= aG'B+BG'(a)=0 Jipo Seprea позволиют стредения в единств стредоц Bancraruel HY 4/ wes TY Thursep y = R, x >0 1 2x + x uy =0 [11(0,y) = 5y $\frac{dx}{1} = \frac{dy}{x} = \int x dx = \int dy = \int \frac{x^2}{2} = y + C = \int \frac{x^2}{2} - y = C$

4(2,y)=G(x-y) - source pencerue

$$u(0,y) = G(-y) = 5y$$

$$G(2) = 52$$

$$G(2) = 52$$

$$Omber u(0,y) = -5(\frac{x^2}{2} - y).$$