





Фотография 4

(8/A/D+))/3 J) 25 Salva No.5 wime gagary Heimana: u(r,4) = C + Eno, (a) (Ancos 10 + Busin nip) or (Pip) - Ener (-1) n.an (An cosny + Bn sinny) 2/2 /r=1 = In=1 - n (An cos114 + Bn sinny) = cos24 H1=B1=0 Aa=- & , Ba= Aa= Ba ... = 0 u(r, 4) = - 1/2 · cos & 4. Ombem: 11(1,4) = - 1 12.00s 24. 3agaraTi 3 $|u| = u \times x, -\infty < x < +0, t > 0$ $|u|(x,0) = e^{-x^2 + dx},$ |u| < H |u|(x)Jyaecon: $u(x, \pm) = \frac{1}{21\pi \pm -00} e^{2\frac{x}{5} - \frac{x^2}{4\pm}} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm} - \frac{x^2}{4\pm})} d\frac{x}{5} = \frac{1}{2\sqrt{51}} \int_{\pm \infty}^{10} e^{(2\frac{x}{5} - \frac{x^2}{4\pm} - \frac{x^2}{$ $= \frac{1}{2\sqrt{3}t} \int_{-\infty}^{+\infty} \frac{4t+1}{4t} \left[\left(\xi - \frac{4t+x}{4t+1} \right)^2 - \left(\frac{4t+x}{4t+1} \right)^2 + \frac{x^2}{4t+1} \right] d\xi =$ $= \frac{1}{2\sqrt{3}t} \int_{-\infty}^{+\infty} \frac{4t+1}{4t} \left[\frac{x^2}{4t+1} - \left(\frac{4t+x}{4t+1} \right)^2 \right] \int_{-\infty}^{+\infty} \frac{4t+1}{4t} \left[\xi - \frac{4t+x}{4t+1} \right]^2 d\xi =$ $= \frac{1}{2\sqrt{3}t} \left[\frac{x^2}{4t+1} - \left(\frac{4t+x}{4t+1} \right)^2 \right] \int_{-\infty}^{+\infty} \frac{4t+1}{4t} \left[\xi - \frac{4t+x}{4t+1} \right]^2 d\xi =$ $= \frac{1}{2\sqrt{1+2}} = \frac{46+1}{44} \left[\frac{\chi^{2}}{4+1} - \left(\frac{44+x}{4+1} \right)^{2} \right] \cdot \sqrt{\frac{44}{44}} \int_{-\infty}^{+\infty} e^{-\frac{1}{2}\sqrt{\frac{44+1}{44}}} \left(\frac{1}{5} - \frac{44+x}{4+1} \right) \int_{-\infty}^{2} \frac{44+x}{4+1} \left(\frac{1}{5} - \frac{44+x}{4+1} \right) - \frac{1}{44} \left(\frac{1}{5} - \frac{44+x}{4+1} \right) = \frac{1}{2\sqrt{\frac{44+1}{44}}} \left(\frac{1}{5} - \frac{44+x}{4+1} \right) - \frac{1}{44} \left(\frac{1}{5} - \frac{44+x}{4+1} \right) = \frac{1}{44} \left(\frac{1}{5$ $= \frac{1}{\sqrt{ut+1}} e^{-\frac{4t+1}{4t}} \left[\frac{x^2}{4t+1} - \left(\frac{4t+x}{4t+4} \right)^2 \right]$ Ombern: $u(x,t) = \frac{1}{\sqrt{4+1}} = \frac{4t+1}{4t} \left[\frac{x^2}{4t+1} - \left(\frac{4t+x}{4t+1} \right)^2 \right]$