Duppy Des KP 2. To Hall Bapuart II (26) a) y'cluy-4coox) = 2x-4y sin x b) xdx = (y. e²³+ x² > dy Задыа определить тип (сдок-вом) и наити общее решение ках дого ду 1-20 порадом. Turned ITY, womepure was uzymum wa NK: 4) Ay a PT:
Pow. Quydra Row Suydy = 0 4,= &(x).A.(A) 2) Ognopoguse ITY:

Mcxyydr+ Ncxy)dy = 0 - ognope ITY +20 rseam Mcx,y) a Ncx,y) - ognopoguse a obuget cherem.

Mcxy)-ognseam Mckx,ky= k"Mcxy) a n ≥0. n- chemens ognopogusama washine F17:

y'= a(x) y + b(x) - um F17 onnoc y

x'= a(y) x x Bry) - um F17 ortoc x.

com =0, mo F17 eugé u agroguo

umaninocto b nom, mo renge pa y (x) u ez np. e y(x) - um

Tymner AF7 2-10 na/. ешть (их сшепень1 и они не перешиюшаются) y"+ a.cx)y2+ a.cx)y=0, zque y,y' ny - Box 1= cmerienn (ne rixtato c 170px, T, KON) Conjunt bug AAY repay one pamaps: L(y(x)) = f(x), rge L=Lu(y) = dny + Az(E) dny + ... + An(x)y ЛИНЕЙНЫЙ ОПЕРАТОР диор-я 4) 円Y Depuyuu: 30x)= a(x)y+6cx)·y" - か 5. no y n +0sl x'cy)=a(y)x+6cy)x - 共7 6. no x fy brown groups. Mings = - Ay 67. Azecu Mang) = Mings. Пальше шиль изут колибильний и повышение породка Disposition KP 2-0 Front Bapusant (1 (26) a) y/chy-ressed = 2x-4y sinx b) xdx = (y. e^{2y}+ x²) dy a) y'chay-ucosu) = 2x-4ysinac (. da (hy-ucosu) dy + (uysinx-2x)du = 0 M(my) May) M стуз obepun na AY B NA: => 300 AY ETTA, T.K. 3 NCK-3) = 3 NCK-4) 3 Mc4,4) = 0-4.6-sinx) = 45inx 3 Mc4,4) = 45inx -0 = 45inx $\int (495144-24) dx = 49 \int 6144 dx - 2 \int x = 49 \cdot 6 - 6054 - 2 \frac{x^2}{2} + 643 = F(4,4)$ 7 FC43) = luy-40052; -4(052 + Ciy) = luy-400523 => Ciy) = lu(4) Cog) = Shoydy = glog- Sydby = ylog- Sg. gdg = 5hg- y==> Fcogy = -4400=x-x2+ ylog-y b) xdx = (y. e2y+ x2) dy (y.e²³+ x²)dy+ (-x)dx = 0 Mcxigo Those run ha IDY & M. I. :

Sterny = 2x

On = 2x

N(My) = 0 Thosephul na ognophognoculó: $M(kn_3ky) = ky \cdot e^2 + k^2 e^2 = k \cdot y \cdot (e^{2y}) + k^2 e^2 = k \cdot M(k,y)$ $M(kn_3ky) = -kx = k^2 \cdot M(k,y)$ M. S. one mulogenes kind 2 de=(ye^y+x²)dy 1. zdy dn = ye24 22 xig = x + 1/2 yezy (· x (wongram 14) Depuyum) ル・シィッコ ルンナ g e 3 y Tyuno z cg) = x2,=> 2/g)=2x.22; eum NAJ newogon larpama (bapuayuu) 122y)-2=0 크ఠ로 = Z (· 2선물 == 2dg 了量= gady: lulz=2y+((y): Z= exy+cry) 12241-Z= ye29 1. (e29+(14))-e24+(14)=ye29 1. e 24+C(2). czy+c(4)) - e 24+C(4) = yezy 124 e(4) (2+c(4)) - e29 e(4) = ye29 e²⁷(1/2.e⁽¹⁴⁾. (2+c²(4))-e⁽¹⁴⁾)=ye²⁷ erg (1/2 erg) (2+ cty))-erg) = 0 (=7 (=> {(e^{cuy})'= y; (e^{cuy})'= 2y,=> e^{cuy}= /2ydy = 2. ½+ C = y²+ C,=> => C(y) = ln(y+C), z= e^{2y+ln(y+C)} = e^{2y}(y+c). Bepueurs k next repair: $\begin{cases}
2 = e^{29} \cdot (y^2 + e) \\
2 = e^{29} \cdot (y^2 + e)
\end{cases}
= 2^{19} \cdot (y^2 + e) = 2^{19} \cdot (y^2 + e) = 2^{19} \cdot (y^2 + e)$ $\begin{cases}
2 = e^{29} \cdot (y^2 + e)
\end{cases}
= 2^{19} \cdot (y^2 + e)$