1. gyakorlat

(2)
$$y'' = Nh(2x) - x^2$$

 $y' = \frac{Ch(2x)}{2} - \frac{x^3}{3} + C_n$
 $y = \frac{Nh(2x)}{4} - \frac{x^4}{12} + C_nx + C_2$

$$\frac{3h(0)}{4} - \frac{0}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{1}{12} = \frac{1}{12}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{12} = \frac{1}{12} = \frac{1}{12}$$

$$\frac{1}{12} + \frac{1}{12} = \frac{1}{1$$

$$y(x) = \frac{3h(2x)}{4} - \frac{x^4}{12} + \frac{1}{2} \times + 2$$

$$y'_{(4)} = \int (x_1 y_{(4)}) \qquad \text{els'ovend'' explicit} \qquad \text{diff. espendt}$$

$$\int \frac{1}{2} \exp(x \, dx) dx = \int \frac{1}{2} (x_1) dx$$

$$\int \frac{1}{2} dy = \int \frac{y'}{2} dx = \int \frac{1}{2} (x_1) dx$$

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(3)
$$y' = \frac{x}{y} e^{4x^2 - 5y} = x e^{4x^2} \cdot \frac{1}{y e^{5y}}$$

$$\int y e^{5y} dy = \int x e^{4x^2} dx$$

$$y = \frac{1}{y} e^{5y} - \frac{1}{y} e^{5y} = \frac{1}{y} e^{4x^2} + C$$

$$\frac{Q}{y'} = \frac{111}{(x-1)y'} = \frac{y+1}{y} \cdot \frac{1}{x-1}$$

$$\frac{(y+1)-1}{y} = \frac{1}{y} \cdot \frac{1}{x-1}$$

$$\int y+1 \, dy = \int x-1 \, dy = \int y-1 \, dy = \int y-1 \, dy = 0$$

$$\int y=-1 \, \frac{y+1}{y} = 0$$

$$y=-1 \, \text{meg ddúna}$$

$$y(2)=-1 \, y=-1$$

$$y(2)=2 \, 2-\ln|y|=\ln|x|+C$$

$$z-\ln|y|=2 \, \ln|x|+C$$

$$y(2) = -2 -2 - (n) - 1 = (n) / 1 + c$$

$$c = -2$$

$$y - (n) / (y + 1) = (n) / (x - 1) - 2$$

$$\int g^{2} + 2y + \Gamma y^{2} - \int (x-2)(x+4) = \int \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = 0$$

$$\int \frac{1}{(y+1)^{2} + y^{2}} dy = \int \frac{\frac{1}{6}}{1 + 2} + \frac{1}{6} + \frac{1}{$$

(6) y(+) palonium menny rése ez idő júss vényelen

$$\frac{y(+)}{y(+)} = -\lambda$$

$$\frac{e^{-2900\lambda \cdot c}}{e^{-2900\lambda \cdot c}} = \frac{1}{2}$$

$$\int \frac{1}{y} dy = \int -\lambda dt$$

$$1 - \frac{y(100)}{y(0)} = 1 - \frac{e^{-\frac{\ln 2}{2900} \cdot 200 + 2}}{e^{-\frac{\ln 2}{29} \log 2}} = 1 - e^{-\frac{2}{29} \log 2}$$