: 49.11

Ex 1. (1+x)dy - ydx = 0 을 풀어라.

$$\int \frac{1}{y} dy = \int \frac{1}{1+1} dx$$

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Ex 2. 초깃값 문제 $\frac{dy}{dx} = -\frac{x}{y}$, y(4) = -3 을 풀어라.

$$y \cdot dy = -3l \cdot dsc$$
 $5y \cdot dy = 5 - 3c \cdot dsc$
 $5y \cdot dy = -12 \cdot 2c \cdot dsc$
 $5y \cdot dy = -12 \cdot 2c \cdot dsc$
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Ex 3. (해 잃어버림)
$$\frac{dy}{dx} = y^2 - 4 = 풀어라.$$

$$\frac{dy}{y^2-4} = dx$$

$$\frac{1}{y-1} \cdot \frac{1}{y+1} = \frac{1}{4} \left(\frac{1}{y-1} - \frac{1}{y+1} \right)$$

$$\int \frac{1}{y^2-4} dy = \int 1 dx$$

$$\frac{1}{4}\int \frac{1}{y-2} - \frac{1}{y+2} dy = \int dx$$

$$\frac{1}{4}(\ln|Y-1| - |n|V+1|) = 3C+C_1$$

$$\frac{1}{4}(\ln|Y-1| - |n|V+1|) = 43C+4C_1$$

$$\frac{1}{4}(\frac{1}{4}) = 43C+4C_1$$

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sep.

Ex 4. 초깃값 문제 $(e^{2y}-y)\cos x \frac{dy}{dx} = e^y \sin 2x$, y(0) = 0 을 풀어라.

ey = ey dy = Sinzu dac Cosac dac

e'-4.e' dy = 25ihst-2055e dx

Serdy-Sverdy = Szsinscdsc

e'- (-ye'-e') 2-2 cosictL

e+ ye+ e+ =-2(05)(+L) y(0)=0

1+0+1=-2+C

c=4

Jy.e'dy = -ye'+ Se'dy : -ye'-e'

Su: V = 12.V - Su: V

) Y(0)=0 . ey+y='+e'=-2(05)(+4 40

 $\Delta \mathbf{x}$ 5. 초깃값 문제 $\frac{dy}{dx} = e^{-x^2}$, y(3) = 5 를 풀어라.