(2)
$$y' = \frac{x+y-3}{x-y-4}$$
 $x = x, +h$
 $y' = (x, +h) + (Y, +kc) - 3 = \frac{x}{x}, +y, +h+kc-3}$
 $(x, +y) - (Y, +k) - 7 = \frac{x}{x}, +y, +h-k-1$

$$\begin{cases}
y + x + y - 3 \\
(x, +y) - (Y, +k) - 7 = x - 2
\end{cases}$$

$$\begin{cases}
y + x + y - 3 \\
y + x + y - 3 = 0
\end{cases}$$

$$\begin{cases}
h - x - 1 = 0
\end{cases}$$

$$\begin{cases}
h - x - 1 = 0
\end{cases}$$

$$\begin{cases}
h - x - 1 = 0
\end{cases}$$

$$\begin{cases}
h - x - 2 - 2 = 2
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$$\begin{cases}
h - x - 2 - 2 = 1
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$$\begin{cases}
h - x - 2 - 2 = 2
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h - x - 2 - 2 = 1
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$$\frac{dz}{dx} - 2 = \frac{dy}{dx}$$
 $\frac{dz}{dx} = \frac{2-1}{2z+5}$ $\frac{dz}{dx} = \frac{2-1}{2z+5} + 2(2z+5)$

$$\int \frac{2(2+\frac{5}{2})}{5(2+\frac{9}{5})} d2 = \int \frac{2}{5} \left[\frac{2}{2+9} + \frac{5}{2} \left(\frac{1}{2+9} \right) \right] d2$$

123 (x+4+1)
$$dx + (2x+2y-1) dy = 0$$

$$\begin{array}{l}
(+d) \\
(x+4+1) dx + (2x+2y-1) dy = 0
\end{array}$$

$$\begin{array}{l}
(+d) \\
(-2x+2y) = 0
\end{array}$$

$$\begin{array}{l}
(-2x+1) dx + (2x-1) dy = 0
\end{array}$$

$$\begin{array}{l}
(-2x+1) + (2x-1) (-2x-1) = 0
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$$\begin{array}{l}
(-2x+1) + (-$$

Y+27+3 |u|x+1-2 = C

$$\int_{0}^{\infty} \frac{-3h+3k+1}{-3h-3k-3} = 0$$

$$\int_{0}^{\infty} \frac{-3h-3k+1}{-3k-3} = 0$$

$$\begin{cases} \chi = 2\zeta + 1 \\ \gamma = \gamma_1 + 0 \end{cases}$$

$$\frac{dY_1}{dx_1} = \frac{3x_1 - 7x_1}{3x_1 - 7y_1}$$

$$= -\frac{1}{3}x_{1} + \frac{3}{3}x_{1} - \frac{1}{1}h + \frac{3}{1}k + \frac{1}{3}$$

$$\begin{vmatrix} 4 & 3 \\ 13 & -1 \end{vmatrix} = 49 - 9 = 40 \quad h = \frac{40}{5} - 4$$
 $\begin{vmatrix} -1 & -1 \\ 3 & 3 \end{vmatrix} = -21 + 21 = 0 \quad K = 0 = 0$

$$y_1 = \frac{1}{2}x_1 - \frac{1}{2}x_1 = \frac{1}{2}(0x_1) - \frac{1}{2}x_1$$

$$\frac{1}{2}x_1 - \frac{1}{2}(0x_1) - \frac{1}{2}x_1 = \frac{1}{2}(0x_1) - \frac{1}{2}x_1$$

$$\frac{dv}{dx}$$
, $+v = \frac{x_1(3v-1)}{x_1(3-1v)}$

$$\frac{dv}{dx} = \frac{3v-7}{3-7v} = \frac{3(-7-3)(+1)^2}{3-7v} = -7(1-v^2)$$

$$\frac{3-70}{-7(1-0^2)} dv = \frac{1}{x_1} dx - \frac{1}{1-0^2} \int_{1-0^2}^{3-70} dv = \frac{1}{x_1} dx$$

$$-\frac{1}{4} \left[\int \frac{3}{140^{2}} + \int \frac{1}{2} \frac{(20)}{140^{2}} dx \right] = -\frac{1}{4} \left[3 \int \frac{k_{2}}{1420} dx \right] + \frac{1}{2} \ln (1 - 0^{2}) \right] = \frac{1}{2} \left[\ln (1 + 0) + \ln (1 - 0) \right] + \frac{1}{2} \ln (1 - 0^{2}) \right] = \frac{1}{2} \ln (1 - 0^{2})$$

$$= -\frac{1}{4} \left[\frac{3}{2} \left[\ln (1 + 0) + \ln (1 - 0) \right] + \frac{1}{2} \ln (1 - 0^{2}) \right] = \ln C \chi_{1}$$

$$= -\frac{1}{4} \left[\frac{3}{2} \left[\ln (1 - 0^{2}) + \frac{1}{2} \ln (1 - 0^{2}) \right] = \ln C \chi_{1}$$

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$$= -\frac{1}{4} \left[\ln (1 - 0^{2}) + \ln (1 - 0^{2}) + \ln (1 - 0^{2}) \right] = \ln C \chi_{1}$$

$$= -\frac{1}{4} \left[\ln (1 - 0^{2}) + \ln (1 - 0^{2}) + \ln (1 - 0^{2}) \right]$$

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$$= -\frac{1}{4} \left[\ln (1 - 0^{2}) + \ln (1 - 0^{2}) + \ln (1 - 0^{2}) \right]$$

$$= -\frac{1}{4} \left[\ln (1 - 0^{2}) + \ln ($$

(1.21) (x+24+1) dx - (2x+4+3) dy=0

Resolució

0,52-925, =0

2 = 9,x+5,y == x+2y

 $\frac{d^2 = 1 + 2dy}{dx} \frac{dx}{dx} = \frac{1}{2} \frac{(d^2 - 1)}{dx}$

(2+1) dx - (22+3) dy =0

(2+1) - (22+3) dy = 0

1 - (22+3) dy = 0 (2+1) dx

 $1 = \frac{2}{2} + \frac{3}{4} \frac{dy}{dx} = \frac{1}{2} \frac{d^2 - 1}{dx}$

 $\frac{2}{22+3} + 1 = \frac{d2}{dx}$

 $\frac{22+2+2+3}{22+3} = \frac{42+5}{22+3} = \frac{d2}{dx}$

 $dx = \frac{22+3}{42+5} dz$ $x = \frac{22+3}{42+5} dz$

2= de |42+6-1+1d7= | 1 | 42+54 | d7 2 |42+5 | 2 | 42+5 | 42+5

X= = = [2 + flu | 45+2] + C X= = [X+2 / + flu | 4/48/45

$$\frac{dy}{dx} = \frac{x+2y+1}{2x} - 3$$

$$\frac{dy}{dx} = \frac{x+2y+1}{2x} - 3$$

$$\frac{x}{2x} = x_1 + 3 + 3 + 2$$

$$\frac{dy}{dx} = \frac{x+2y+1}{2x} - 3$$

$$\frac{dy}{$$

$$Y_{1} = Y + \frac{5}{4} = \frac{1}{2}(x - \frac{3}{2})\ln(x - \frac{3}{2}) + C_{1}(x - \frac{3}{2})$$

$$4y + 5 = (2x - 3)\ln(x - \frac{3}{2}) + C_{1}(2x - 3)$$

$$\ln(x - \frac{3}{2}) - \frac{4y + 5}{2x - 3} = C_{1}$$

11.2+) X+Y-2+(1-x) Y'=0

$$\frac{dY}{dx} = \frac{2 - x - 7}{1 - x} = -\frac{x - 47}{2}$$

$$\int_{-1}^{1} \frac{x = x + 1}{1 - x}$$

$$\frac{dX_{1}}{dX_{1}} = \frac{-(x_{1}+1)-(y_{1}+1)+2}{-(x_{1}+1)+2} = \frac{-x_{1}-(-y_{1}-1+2)}{-x_{1}} = \frac{x_{1}+y_{1}}{x_{1}}$$

$$\frac{dv}{dx} = \frac{dv}{dx} = \frac{x_1 + v}{x_1} = \frac{x_2}{x_1} = \frac{x_1}{x_2}$$

$$\frac{dv}{dx} = \frac{dv}{dx} = \frac{x_1 + v}{x_2} = \frac{x_1 + v}{x_2} = \frac{x_2}{x_1}$$

$$\frac{dv}{dx_1} = \frac{x_2 + v}{dx_2} = \frac{x_1 + v}{x_2} = \frac{x_2 + v}{x_$$

U=lnxitc -> YI=lnxitc | Yi=xilnxit(xi

Y-1=(x-1) (M(x-1)+c(x-1)

$$y = (+6c-0) \ln(x-i) + c(x-i)$$

$$\frac{dY}{dx} = -\frac{X+Y}{Y+Y-1}$$
 Sub $Z=X+Y$

$$\frac{dz}{dx} = 1 + \frac{dy}{dx}$$

$$\frac{d^{2}}{dx} = 1 - \frac{2}{2-1} = \frac{1-2}{2-1}$$

$$(2-1)d2 = -dx$$

$$\frac{2^2}{2} - 2 = -x + C$$

$$(2+4)^{2} - (x+4) = -x + C$$

$$(x+y)^2-2y=c$$

Res:

$$2x+3y=5+(3x+2y-5)$$
 $y'=0$
 $2x+3y=5+(3x+2y-5)$ $y'=0$
 $2x+3y=5+(3x+2y-5)$ $y'=0$
 $2x+3y-5$ $dx = -(2x+3y-5)$ $dx = 3x+2y-5$
 $dx = -2x-3y+5$ $x = x_1+h$
 $dx = -2x-3y+5$ $y = y_1+k$
 $dx_1 = -2(x+h) - 3(x+k) + 5 = -2x_1-3y_1 - 2h - 3k+5$
 $dx_1 = 3(x+h) + 2(x+k) - 5 = 3x_1 + 3h + 2x_1 + 2k - 5$
 $|-2h-3k+5=0|$
 $|-3-3| = h = (-10) + 15 = 5 = 1$
 $|-3-5| = k = -10+15 = 1$
 $|-3-5| = k =$

$$\frac{(3+20)}{-20^{2}-60-2} dv = \frac{dx}{x_{1}}$$

$$\frac{1}{2} \frac{(3+20)}{(0^{2}+30+4)} dv = \frac{dx}{x_{1}}$$

$$\frac{1}{2} \frac{(3+20)}{(0^{2}+30+4)} = \frac{1}{1} \ln x_{1} + \ln c$$

$$\frac{1}{2} \ln (0^{2}+30+4) = \frac{1}{2} \ln x_{1} + \ln c$$

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$$\frac{1}{2} \ln (0^{2}+30+4) = \frac{1$$