1)
$$(5x^{2}-2x^{3}) dx = 2xy dy$$
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$$- \frac{1}{3} l_n (v-1) - \frac{2}{3} l_n (-v-2) = l_n \times + Q \rightarrow$$

$$-\frac{1}{3} \ln \left(\frac{4}{x} - 1 \right) - \frac{2}{3} \ln \left(-\frac{4}{x} - 2 \right) = \ln x + 4$$

define de manera implicita las salicio. nes y de la ecuación

2)
$$y'' + \frac{1}{2}y = -\frac{1}{2} \sin(2x)$$

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

$$y(0) = -\frac$$

3) $y' - 6y = 5e^{6x}y^{4}$ $y' - 6y = 0 - \frac{dy}{dx} = 6y - \frac{dy}{3} = 6dx - 6ny = 6x$ $y = K(x)e^{6x}$ $y' = K'(x)e^{6x} + 6K(x)e^{6x}$ $K'(x)e^{6x} - 6K(x)e^{6x} - 6K(x)e^{6x} = 6e^{6x}y^{4}$ $K'(x)e^{6x} = 5e^{6x}y^{4} - K'(x) = 5y^{4} - K(x) = 5y^{4} = y^{5}$ $y' = y^{5}e^{6x}$ $y' = (y^{5} + C)e^{6x}$ $y' = (y^{5} + C)e^{6x}$ $y' = (y^{5} + C)e^{6x}$ $y' = (y^{5} + C)e^{6x}$

4)
$$y'' + 6y' + 9y = 6e^{-3x} + 18$$
 $y(0) = 2$
 $y'(0) = 25$
 $p(x) = x^2 + 6x + 9$
 $y(0) = 25$
 $y(x) = C_1e^{-3x} + C_2xe^{-3x}$
 $y(0) = 2 + 2e^{-3x} + 2e^{-3x}$
 $y(0) = 2e^{$

5)
$$y' + xy = 3 + e^{x}$$
 $|y'(0)| = 2$
 $y' + xy = 0 - y' = -xy - \frac{dy}{dx} = -xy - \frac{dy}{dy} = -x dx$
 $|x' + xy| = 0 - y' = -xy - \frac{dy}{dx} = -xy - \frac{dy}{dy} = -x dx$
 $|x' + xy| = 0 - y' = -xy - \frac{dy}{dx} = -xy - \frac{dy}{dy} = -x dx$
 $|x' + xy| = 0 - y' = -xy - \frac{dy}{dx} = -xy$

6)
$$2 \times y - 3 \times^2 y^3 + (x^2 - 2 \times^3 y) y^2 = 0$$

$$\frac{dM}{dy} = 2 \times - 6 \times^3 y$$

$$\frac{dN}{dx} = 2 \times - 6 \times^3 y$$

$$\frac{dJ}{dx} = M + \frac{dJ}{dx} = 2 \times y - 3 \times^3 y^2 - J^2 = 2 \times y - 3 \times^2 y^2 dx$$

$$J = \int 2 \times y - \int 3 \times^3 y^2 - J^2 = J^2 + J^2$$

7)
$$y' - \frac{2}{x+2}y = 2(x+2)^3$$
 $y' - \frac{2}{x+2}y = 0$
 $y' = \frac{2}{$

8)
$$e^{i}y^{2} + y_{3}e_{n}x + (3ye^{i} - 2cos^{2})y^{2} = 0$$
 $\frac{dH}{dy} = \frac{dW}{dx} - \frac{u(y)(e^{i}y^{2} + y_{3}e_{n}x)}{dy} = u(y)(e^{i}y^{2} + y_{3}e_{n}x) + u(y) \cdot (2e^{i}y + y_{3}e_{n}x)$
 $\frac{dN}{dx} - \frac{u(y)(3ye^{i} - 2cos^{2}x)}{dx} \cdot u(y) \cdot (3ye^{i} + 2se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) + u(2e^{i}y + se_{n}x) = u(3ye^{i} + 2se_{n}x) - u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = u(3ye^{i} + 2se_{n}x - 2e^{i}y - se_{n}x) + u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = (3ye^{i} + 2se_{n}x - 2e^{i}y - se_{n}x) + u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = (3ye^{i} + 2se_{n}x - 2e^{i}y - se_{n}x) + u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = u(3ye^{i} + 2se_{n}x - 2e^{i}y - se_{n}x) + u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = u(3ye^{i} + 2se_{n}x) + u(2e^{i}y + se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = u(3ye^{i} + 2se_{n}x) + u(3ye^{i} + 2se_{n}x)$
 $u'(e^{i}y^{2} + y_{3}e_{n}x) = u(3ye^{i} + 2se_{n}x) + u(3ye^$

9)
$$y''' + y'' + 2y'' + 10y'' + 13y''' + 5y'' = 0$$

$$P(x) = x^{3} + x^{6} + 2x^{5} + 10x^{2} + 13x^{3} + 5x^{3}$$

$$1 \quad 1 \quad 2 \quad 10 \quad 13 \quad 5 \quad 6 \quad x = 1 \quad m.3$$

$$-1 \quad -1 \quad 0 \quad -2 \quad -8 \quad -5$$

$$1 \quad 0 \quad 2 \quad 8 \quad 5 \quad 0$$

$$-1 \quad -1 \quad 1 \quad -3 \quad -5 \quad 2^{\frac{1}{2}}\sqrt{4-\frac{1}{2}}5 = \frac{2^{\frac{1}{2}}\sqrt{16}}{2} = \frac{2^{\frac{1}{2}}\sqrt{16}}{2}$$

$$1 \quad -1 \quad 3 \quad 5 \quad 6 \quad x = 1 \quad 2$$

$$1 \quad -1 \quad 2 \quad -5 \quad x = 1 \quad 2$$

$$1 \quad -2 \quad 5 \quad 6 \quad x = 1 \quad 2$$

y(x)= C1+ C1x + C3ex+ Cyxex+ C5x+ ex+ C6 exen(2x)+ C3ex con(2x)