$$y_{p} = \frac{1}{2}x^{2} + \frac{3}{2}x + \frac{7}{4}$$

$$y_{y} = \frac{1}{2}e^{2x} + \frac{1}{2}e^{2x} + \frac{3}{2}e^{2x} + \frac{7}{4}e^{2x}$$

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$$y_{y} = \frac{1}{2}e^{2x} + \frac{1}{2}e^{2x} + \frac{1}{2}e^{2x}$$

$$J_{p} = \frac{1}{2}x^{3} - \frac{9}{4}x^{2} + \frac{23}{4}x - \frac{11}{8}$$

$$J = C_{1}e^{-2x} + C_{2}e^{-x} + \frac{1}{2}x^{3} - \frac{9}{4}x^{2} + \frac{23}{4}x - \frac{11}{8}$$

$$J^{2} + 2J' = x^{2} + 1$$

$$J_{h} : P(r) = r^{2} + 2r = 0 \qquad r = -1 + 1 \qquad r = 0$$

$$r_{2} = -2$$

$$J_{h} = C_{1} + C_{2}e^{-2x}$$

Jp: y=(Ax2+BX+C)x=Ax3+Bx2+CX

J'= 3Ax2+2BX+C,5=6AX+2B

6AX+2B+2(3AX2+2BX+C)=X2+1

A= 1/6

6A+4B=0 B=-1/4

2B+2C=1 C=3/4

yp= 1/6x3-1/x2+3x

Siy= C,+ Cze + 1/6 x3/x2+3/x

6 A=1

$$\frac{3p}{3p}: \quad y_{s} = Ax^{3} + Bx^{2} + Cx + D \quad , \quad y'' = 3Ax^{2} + 2Bx + C \quad , \quad , \quad y''' = 6Ax + 2B$$

$$6Ax + 2B + 3(3Ax^{2} + 2Bx + C) + 2(Ax^{2} + Bx^{2} + Cx + D) = 2x^{3} + x + (4x^{2} + 2x^{2} + (2x^{2} + 2x^{2} + 2x^{2} + (2x^{2} + 2x^{2} +$$