$$\frac{1}{2} = \frac{2015}{90E}$$

$$\frac{1}{90E}$$

$$\frac{1}{9} = \frac{1}{90E}$$

$$\frac{1}{9} + 0 = R$$

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$$\frac{1}{9} + 0 = R$$

$$\frac{1}{9} = \frac{1}{90E}$$

$$\frac{1}{9} = \frac{1$$

$$\frac{0.2}{\text{Auv.eq}^{2}} \left( \frac{n^{2} + pp^{2} - 2p^{2}}{2p^{2}} \right) 4 = e^{\frac{x+y}{2}}$$

$$\frac{\text{Auv.eq}^{2}}{\text{(m^{2} + m^{-2})}} 4 = e^{\frac{x+y}{2}}$$

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$$\frac{\text{(m^{2} + m^{-2})}}{\text{(m^{2} + m^{-2})}} = e^{\frac{x+y}{2}}$$

$$\frac{\text{(m^{2} + m^{-2})}}{\text{(m^{2} + m^{-2})}} + \frac{4p^{2}}{p^{2}} = e^{\frac{x+y}{2}}$$

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

$$\int \frac{dt}{\sin t + \cos t} = \int \frac{dt}{e^{\frac{t}{2}t} + 1 - 2e^{\frac{t}{2}t}} = \frac{d^{\frac{t}{2}t}}{2}$$

$$\int \frac{dt}{\sin t} = 4$$

$$\int \frac{2 u du}{1 + 2u - u^{2}} = \int \frac{2u - 2 + 2}{1 + 2v - u^{2}} du = \int \frac{2u - 2u}{1 + 2v - u^{2}} = \frac{du}{1 + 2v - u^{2}}$$

$$= - \log \left( 1 + 2u - u^{2} \right) + \frac{2 \log \left( 52 + u \right)}{2 \sqrt{1 + 2u - u^{2}}} = \log 2 C_{2}$$

$$\int \frac{du}{1 + 2u - u^{2}} = \int \frac{2u - 2u}{1 + 2u - u^{2}} du = \int \frac{2u$$

$$\frac{\partial h}{\partial t} = \frac{\partial^{2} u}{\partial n^{2}} + 4 = 0$$

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$$\frac{\partial h}{\partial t} = \frac{\partial h}{\partial t} + \frac{$$

(iii) 
$$\mu = -1 - \lambda^{2}$$
 ( $x \neq 9$ )

$$\chi^{h}(n) + \chi^{2} \chi(n) = 3$$

$$\chi(n) = (100) \chi^{n} + (210) \chi^{n} + (210) \chi^{n} + (100) \chi^{n} + ($$

Reduce to canonical form & fin gen-son n' 20 - 2ny 20 + y2 20 + x 20 + y 20 = 0 n22-2nys + 3+2 +np+y2=0 = 5 = 50 5= 50ny Pr + Ss+ T+ ff(n, s, +, y, r)=0 += 30 P=30 P=30 P=30 Comparing with 3 R=n2 S=-2ny + T=y2 Oudranic ce Rx2+1>+T=0 1 n2/2 - 2 ny > + y2 =0 (nx-y)2=0 >= y Segul rooks) ay + 5=0 a dy = -dx hogy = log (C1) 7 [hy = 4] [1 = ny assiming w=y sour it is independent of v  $P = \frac{\partial y}{\partial n} = \frac{\partial y}{\partial v} \frac{\partial v}{\partial n} + \frac{\partial y}{\partial w} \frac{\partial w}{\partial n} = \frac{\partial y}{\partial v} \frac{\partial y}{\partial w} \left( \frac{\partial y}{\partial v} \right)$ P = y 24 - y du 9 = 34 = 24 24 + 24 20 = 4 24 + 1 200

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$$\begin{aligned}
& = \frac{1}{3\pi} \left( \frac{34}{3\pi} \right) = \frac{1}{3\pi} \left[ \frac{1}{3} \frac{34}{3\nu} - \frac{1}{2} \frac{34}{3\nu} \right] \\
& = \frac{1}{3\pi} \frac{3^{2}u}{3^{2}} + \frac{1}{3^{2}} \frac{3^{2}u}{3^{2}} + \frac{1}{3^{2}} \frac{3^{2}u}{3^{2}u} + \frac{1}$$

$$\frac{49^{2}}{x^{2}} \frac{3^{2}u}{3w^{2}} + \frac{4y}{x} \frac{3u}{3w} = 0$$

$$\frac{y^{2}}{x^{2}} \frac{3^{2}u}{3w^{2}} + \frac{y}{x} \frac{3v}{3w} = 0$$

$$\frac{y^{2}}{x^{2}} \frac{3^{2}u}{3w^{2}} + \frac{y}{x} \frac{3v}{3w} = 0$$

$$\frac{w^{2}}{3^{2}u} + w^{2}u = 0$$

$$\frac{w^{2}}{3^{2}u} +$$