6.1.
$$\frac{9015 - PDE - JFOD}{V \times x - 30 \times y + 0 \times y = - x' \times 10^{-2}y}$$

$$= \frac{3^{2}v}{3x^{2}} - \frac{3^{2}v}{3x^{2}} + \frac{3^{2}v}{3y^{2}} = \frac{5in \ln 2y}{1}$$

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$$= \frac{3+\sqrt{5}}{2} + \frac{3+\sqrt{5}x}{2} + \frac{4}{2} + \frac{4$$

$$\frac{\lambda_{1}}{\partial t} = \frac{\lambda_{1}}{\lambda_{1}} = \frac{\lambda_{1}}{\lambda_{$$

Case Till H= -x2 X1 (h) + x2 x (m = > Xon= C, 12) xint C, sin Am Jaking (2 to L.SIn) =0 7 X= NX X(m)= Cto atom + Cosh nan T(A) + x2 +(1) == 7 U(x1x)= [C15 (0) 1 xn + (2(3 51 n xn) e x2+ of Tar Cyerx2t Un (xir) = (En country for sin nan) e (En = (1/2) generalited gap U(xit)= E(Encorata + Fasinaxa) e72+ Now, using initial co. CHARD): STEN = En Cosyan 4(40) = SINTIN = EFISINTTIL SATU = FISHTH + F2 Sin 2xn+ 7 Fill & Fin =0 +17/2 $U(x_{i}t) = \frac{SPn(n\pi n)e^{-\chi^{2}t}}{V(x_{i}t) = \frac{SPn(n\pi n)e^{-\chi^{2}t}}{\sqrt{\pi n}}} \left[\frac{1}{2\pi n} \frac{1}{2\pi n} \right]$

$$\frac{3^{2}y}{3^{2}} = (^{2})^{3}y$$

$$\frac{1}{2}(y) = (^{$$

The C3 cos(Act) + Cusin (xct)

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U(x,t) =
$$\frac{1}{2}$$
 En cos(Act) + En sin Act | sin $\frac{1}{2}$

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U(x,t) = $\frac{1}{2}$ En sin $\frac{1}{2}$ And $\frac{1}{2}$

U(x,t) = $\frac{1}{2}$ Sin $\frac{1}{2}$ Sin $\frac{1}{2}$ And $\frac{1}{2}$ Sin $\frac{1}{2}$