tersp304 Project 1.) ==xh+y62 == x6,+x6,+y62+y62  $\hat{b}_1 = \theta \hat{b}_1 \times \hat{b}_1 = \omega \hat{b}_2 \quad \hat{b}_2 = \theta \hat{b}_3 \times \hat{b}_2 = -\omega \hat{b}_1$ I==mV2, T==m2(x2-2wyx+y2w2+i2+2wxy+x2w2) T= \frac{1}{2}m\_3\times^2 - M\_2\wyx+ \frac{1}{2}m\_3\times^2\w^2 + \frac{1}{2}m\_3\times^2 + \frac{1}{2}m\_3\times^2\w^2 + \frac{1}{2}m\_3\times^2\times^2\w^2 + \frac{1}{2}m\_3\times^2\w^2 + \frac{1}{2}m\_3\times^2\times^2\w^2 + \frac{1}{2}m\_3\times^2\times^2\w^2 + \frac{1}{2}m\_3\times^2\times^2\w^2 + \frac{1}{2}m\_3\times^2\times^2\w^2 + \frac{1}{2}m\_3\times^2\ti [=T-V, L= 2 M3x2-M3wyx+2 M3Yw2+2 M3y2+2 M3wxy+2 M3x2w2+6 M3M1

[=m,M. 1+(3a)=3a  $\frac{1}{1+(m_1x-m_3wy)} = \frac{M_1wy+M_1xw^2-(m_1^m_1(x-r_1))}{(x-r_1)^2+y^2}$   $\frac{1}{1+(m_1x-m_3wy)} = \frac{M_1wy+M_1xw^2-(m_1^m_1(x-r_1))}{(x-r_1)^2+y^2}$ 1x-2wy-w2x=-w2M1(x+M)-w2M2(x-1+M) Soulers MI = 1-M2 M2 = M x-2wy-w2x=-w2(1-m)(x+m) J+ (M3 y +M3 wx)=M3 wx+M3 w2y-(7 Subland y+2wx+w2y = -w2 (1-m) y my The-scated t= T, x: x'-2y'-x=  $|y', y'' + 2x' - y = -\frac{(1-m)y}{r^3}$ 

P912



9 = 3/4, 9 = 4,

Y=/0+5x x"-24'=1/x=x-(1-m)(x+m) / m(x-1+m) y"1+2x'=(/y=y-(1-M)y P3 My x' = 0 + 8x y' = 8y'' x'' = 8x''' y'' = 8y'''X"= SX" = 8x Uxxt 840xy+284 11 = 8x Uxy+8 y Uyy -28x [mp3-3(1/M(x-17/M)(X-17/M) ((1-m)P,3-3(1-m)(x+m)(x+m)P) 3(1-M)(x+M)2