

of motion is: $\left(2(t)\right)^{2}-t^{2}=1$ & the coordinate transforms of for penrose-carter. diagram is: $t \pm ic = tan \left(\frac{4 \pm 6}{2} \right)$ $\left(\frac{3(t+t+1)}{a}\left(\frac{-1}{a}-(t-3c)\right)-\frac{1}{a^2}\right)$ Substituting: (1 + tan (416)) (1 - tan (4-6) - 1 1) + 1 (tan (4+9) - tan (4-9) - tan (4-9) \ 2) \ \(\frac{1}{2} \) \ \(\frac{1}{2} \) \ \(\frac{1}{2} \) \(\frac{1}{2 =) $a \tan (9+6) \tan (9-6) = \tan (9+6) = \tan (9-6)$ Which is what me have platted