PAVIATH INTEGRATED SOLUTION

DESIGN

WEAVING • TEXTILE

SALTIRE

GRADUATE-POST GRADUATE-RESEARCH SCHOLAR

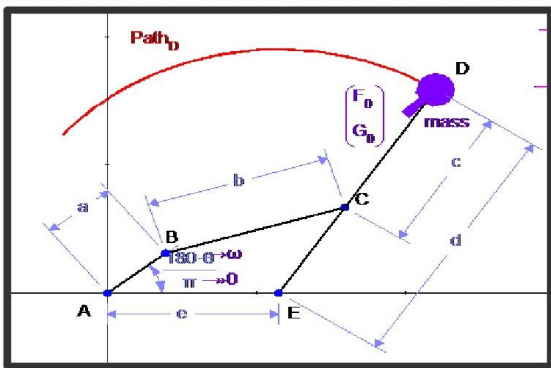| MECHANICAL EXPRESSIONS		EXPORT OUTPUT FILES IMPLICIT EQUATION-PARAMETRIC EQUATION		
SCALABLE VECTOR GRAPHICS	WINDOWS ENHANCED METAFILE	IMAGE-ANIMATION-IMPLICIT EQUATION	ENCAPSULATED POST SCRIPT	PARAMETRIC EQUATION

HTML-HTML5/JAVA SCRIPT APP-LUA APP-OS X DASHBOARD WIDGET-MAPLE-MATHEMATICA-SOURCE CODE-MAXIMA INPUT

$$z_4 \Rightarrow \begin{pmatrix} X = t \cdot \cos\left(\dfrac{180 \cdot \theta}{\pi}\right) \\ Y = t \cdot \sin\left(\dfrac{180 \cdot \theta}{\pi}\right) \end{pmatrix}$$

$$\vec{Vel} \Rightarrow \begin{pmatrix} -1.1314395 \\ 0.74639042 \end{pmatrix}$$

$$\vec{Acc} \Rightarrow \begin{pmatrix} -2.9595653 \\ 1.3731586 \end{pmatrix}$$

Variables		
Variables	Functions	
Name	Value	Locked
F[0]	1	-
G[0]	1	-
mass	1	-
θ	0.66601764	-

$$\arctan\left(\frac{\frac{-b+c-d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}\sqrt{b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d-\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{-b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}(-e+a \cdot \cos(\theta))}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))} + \frac{a \cdot (a^2-b^2+e^2+(-c+d)^2-2 \cdot a \cdot e \cdot \cos(\theta)) \cdot \sin(\theta)}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))}}{\frac{(a^2-b^2+e^2+(-c+d)^2-2 \cdot a \cdot e \cdot \cos(\theta)) \cdot (-e+a \cdot \cos(\theta))}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))} + \frac{a \cdot \sqrt{-b+c-d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d-\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{-b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)} \cdot \sin(\theta)}}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))}}\right)$$

$$\arctan\left(\frac{\frac{-b+c-d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}\sqrt{b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d-\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{-b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}(-e+a \cdot \cos(\theta))}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))} + \frac{a \cdot (a^2-b^2+e^2+(-c+d)^2-2 \cdot a \cdot e \cdot \cos(\theta)) \cdot \sin(\theta)}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))}}{\frac{(a^2-b^2+e^2+(-c+d)^2-2 \cdot a \cdot e \cdot \cos(\theta)) \cdot (-e+a \cdot \cos(\theta))}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))} + \frac{a \cdot \sqrt{-b+c-d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{b-c+d-\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)}}\sqrt{-b-c+d+\sqrt{a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta)} \cdot \sin(\theta)}}{2 \cdot (a^2+e^2-2 \cdot a \cdot e \cdot \cos(\theta))}}\right)$$