Module - 2 - Solution condition 400 =1 and the specific 22 (+) = 1/8: 1/1-cos2+ 0 0 1 = x 200 ND 50 y(+) = 18 sin (++90) (00) 10 miles First let's solve the differential equation and the Solution of various do in to intovert doubles To solve the parametric equations x(t), y(t) and z(t), we will first simplyify them and then calculate the values for each time instance t. $x(t) = \sqrt{8} \sqrt{1-\cos(2t)}$ = 18. 1-Cos2t : + 440. NZ . NI- cos2+ offini with printing : 2(t)= 2. 11-cos2t (c) 2. y(t): y(t) = 18 sin (++90°) = 18 sin (++ T[/2) · 4(t)=18. cos(t)

PAGE No. 3.
DATE

So, the simplified equations are:

$$2(t) = 2.\sqrt{1-\cos(2t)}$$

 $y(t) = \sqrt{8} \cdot \cos(t)$
 $z(t) = t$