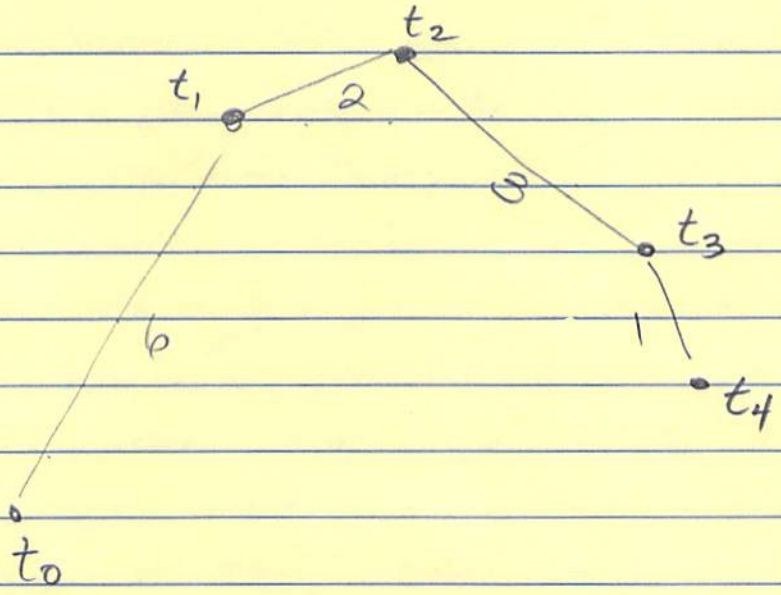

make believe curve. arc length Parameterization example

how many subdivisions to make?

t_0	0.00	0	0.00 = 6/12
t_1	0.25	6	0.50 = 6/12
t_2	0.50	8	0.67 = 8/12
t_3	0.75	11	0.92 = 11/12
t_4	1.00	12	1.00 = 12/12

total length is 12

example: go 60% around the curve
60% lies between t_1 & t_2

$$t_1 + \left(\frac{0.6-0.5}{0.67-0.5}\right)(t_2 - t_1)$$

$$0.25 + \frac{0.10}{0.17} \cdot \frac{1}{4}$$

$$0.25 + 0.15$$

$$= 0.4$$

to hit closely to 60% into the curve use $t = 0.4$