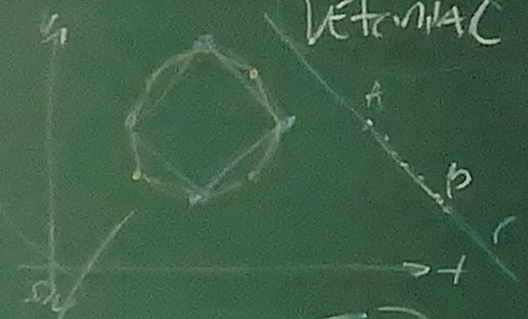
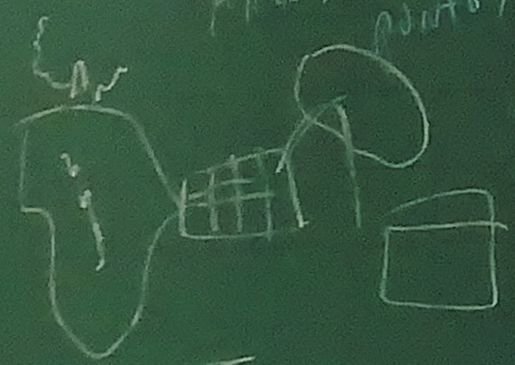
DADOS RASTER VETORIAL

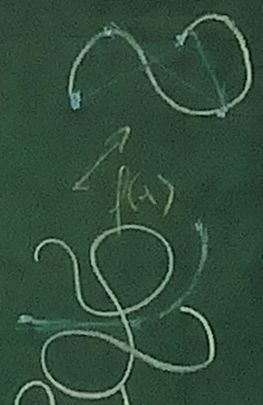


$R^2 = x^2 + y^2 \leftarrow f(x)$

$y = ax + b$ $f(x)$

Aproximar pontos





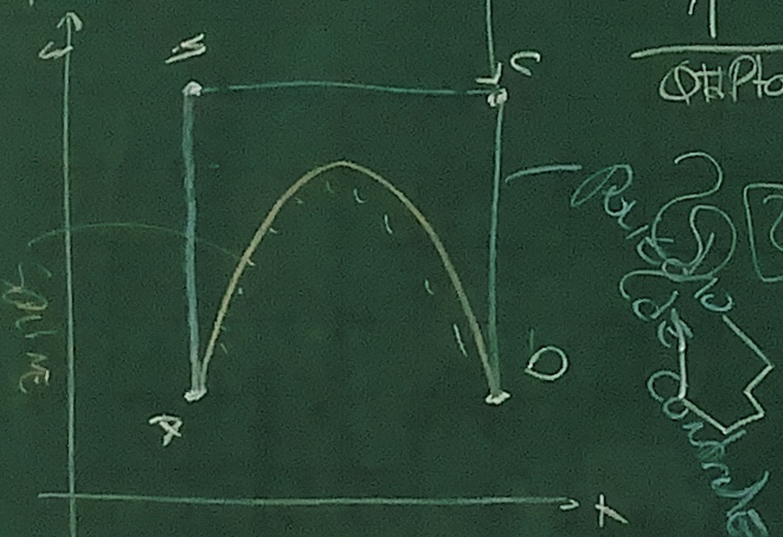
DOFs 1pto
2pto
3ptos
4ptos

$\frac{1}{10} = 0{,}1$

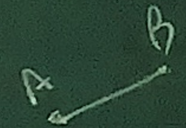
$\frac{1}{20} = 0{,}05$

$\frac{1}{\text{QTPtos}} = \Sigma k$

Pontos de Controle

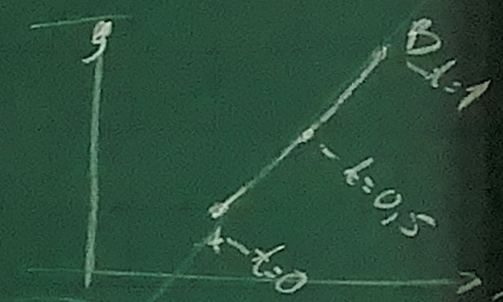


$\overline{AB}$ $\overline{AB}$ $A(10, 10)$ $B(10, 10)$



Spline
Spline-Beta
Catmull
Coons
Bezier
Hermite

Equação Parametrica



$R = A + (B - A) \cdot t$

$R_x = A_x + (B_x - A_x) \cdot t$

$R_y = A_y + (B_y - A_y) \cdot t$

$t = 0 \rightarrow A$

$t = 1 \rightarrow B$

$t \rightarrow 0{,}1$

$t - 0{,}05$

For $t \in [0..1]$ - 0,1

$P_0P_1x = P_{0.x} + (P_{1.x} - P_{0.x}) \cdot t$

$P_0P_1y = P_{0.y} + (P_{1.y} - P_{0.y}) \cdot t$

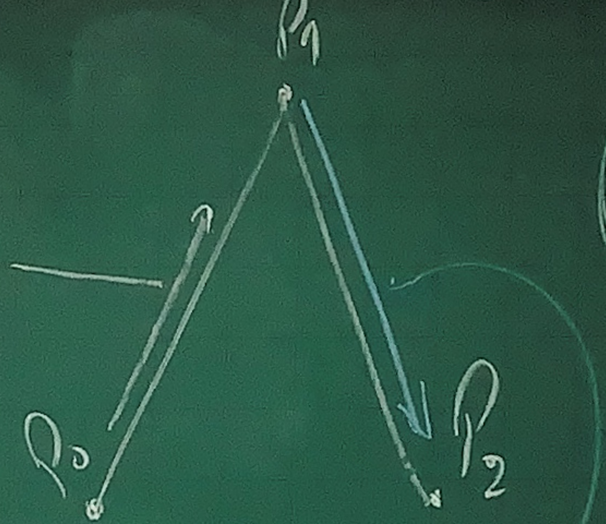
$P_1P_2x = P_{1.x} + (P_{2.x} - P_{1.x}) \cdot t$

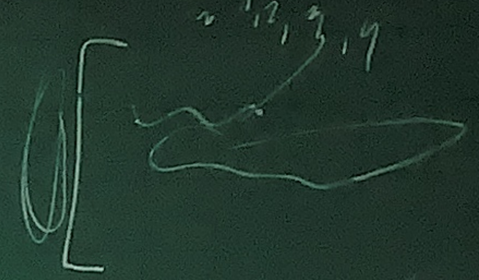
$P_1P_2y = P_{1.y} + (P_{2.y} - P_{1.y}) \cdot t$

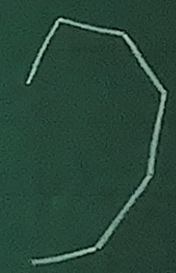
$Rx = P_0P_1x + (P_1P_2x - P_0P_1x) \cdot t$

$Ry = BA_1y + (P_1P_2y - P_0P_1y) \cdot t$

Σ







2 Ptos →	1 Rotina
3 Ptos →	3^2 Rotinas
4 Ptos →	C_4^4 Rotinas
5	10
6	15