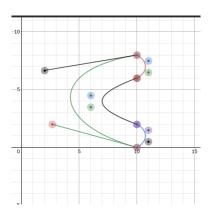
Map 1: Curvas de Bezier

Daniel Lpez - Heber Orellana - Anderson Pea February 14, 2020

- 1. Curva de bezier de los puntos de control: $P_0(4,1)$, $P_1(28,48)$, $P_3(50,42)$, $P_4(40,5)$ Grafica:
- 2. Grafica con segmento de recta $\overline{P_0P_1}$, $\overline{P_1P_2}$, $\overline{P_2P_3}$
- 3. Demostracin de tangente en P_0 pasa por P_1 y la recta tangente de P_3 pasa por P_2
- 4. Demostracin con letra C



Ecuaciones que conforman la letra C

$$f(x) = 8(1-t)^3 + 20t(1-t)^2 + 6t^2(1-t) + 0t^3$$
(1)

$$f(y) = 10(1-t)^3 + 6t(1-t)^2 + 8t^2(1-t) + 10t^3$$
(2)

$$f(x) = 11(1-t)^3 + 33t(1-t)^2 + 33t^2(1-t) + 10t^3$$
(3)

$$f(y) = 9(1-t)^3 + 22.5t(1-t)^2 + 19.5t^2(1-t) + 6t^3$$
(4)

$$f(x) = 10(1-t)^3 + 12t(1-t)^2 + 12t^2(1-t) + 10t^3$$
(5)

$$f(y) = 6(1-t)^3 + 13.5t(1-t)^2 + 10.5t^2(1-t) + 2t^3$$
(6)

$$f(x) = 10(1-t)^3 + 33t(1-t)^2 + 33t^2(1-t) + 10t^3$$
(7)

$$f(y) = 2(1-t)^3 + 4.5t(1-t)^2 + 1.5t^2(1-t) + 0t^3$$
(8)

5. Apellido del matem
tico: Carter Letra C

$$f(x) = 8(1-t)^3 + 20t(1-t)^2 + 6t^2(1-t) + 0t^3$$
(9)

$$f(y) = 10(1-t)^3 + 6t(1-t)^2 + 8t^2(1-t) + 10t^3$$
(10)

$$f(x) = 11(1-t)^3 + 33t(1-t)^2 + 33t^2(1-t) + 10t^3$$
(11)

$$f(y) = 9(1-t)^3 + 22.5t(1-t)^2 + 19.5t^2(1-t) + 6t^3$$
(12)

$$f(x) = 10(1-t)^3 + 12t(1-t)^2 + 12t^2(1-t) + 10t^3$$
(13)

$$f(y) = 6(1-t)^3 + 13.5t(1-t)^2 + 10.5t^2(1-t) + 2t^3$$
(14)

$$f(x) = 10(1-t)^3 + 33t(1-t)^2 + 33t^2(1-t) + 10t^3$$
(15)

$$f(y) = 2(1-t)^3 + 4.5t(1-t)^2 + 1.5t^2(1-t) + 0t^3$$
(16)

Letra A

$$(1-t)^{3}(12) + 3t(1-t)^{2}(12) + 3t^{2}(1-t)(18) + t^{3}(18)$$
(17)

$$(1-t)^{3}(0) + 3t(1-t)^{2}(10) + 3t^{2}(1-t)(10) + t^{3}(0)$$
(18)

$$(1-t)^{3}(13) + 3t(1-t)^{2}(13) + 3t^{2}(1-t)(17) + t^{3}(17)$$
(19)

$$(1-t)^{3}(0) + 3t(1-t)^{2}(8) + 3t^{2}(1-t)(8) + t^{3}(0)$$
(20)