

$$q(x) = (1 - t(x))y_1 + t(x)y_2 + t(x)(1 - t(x))((1 - t(x))a + t(x)b)$$

$$t(x) = \frac{x - x_1}{x_2 - x_1}$$

$$a = K_1(x_2 - x_1) - (y_2 - y_1)$$

$$q(x) = (1 - (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1}))y_1 + (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1})y_2 + (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1})(1 - (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1}))((1 - (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1}))a + (\frac{x}{x_2 - x_1} - \frac{x_1}{x_2 - x_1})b)$$

$$x' = \frac{x}{x_2 - x_1}$$

$$\hat{x}_1 = \frac{x_1}{x_2 - x_1}$$

$$\hat{x}_2 = 1 + \hat{x}_1$$

$$q(x) = (\hat{x}_2 - x')y_1 + (x' - \hat{x}_1)y_2 + (x' - \hat{x}_1)(\hat{x}_2 - x')((\hat{x}_2 - x')a + (x' - \hat{x}_1)b)$$

$$q(x) = \hat{x}_2y_1 - x'y_1 + x'y_2 - \hat{x}_1y_2 + (x'\hat{x}_2 - \hat{x}_1\hat{x}_2 - x'^2 + \hat{x}_1x')((\hat{x}_2a - x'a) + (x'b - \hat{x}_1b))$$

$$q(x) = \hat{x}_2y_1 - \hat{x}_1y_2 - x'y_1 + x'y_2 + (x'(\hat{x}_2 + \hat{x}_1) - \hat{x}_1\hat{x}_2 - x'^2)(\hat{x}_2a - \hat{x}_1b + x'(b - a))$$

$$q(x) = \hat{x}_2y_1 - \hat{x}_1y_2 - x'y_1 + x'y_2 + x'(\hat{x}_2 + \hat{x}_1)\hat{x}_2a - x'^2\hat{x}_2a - \hat{x}_1\hat{x}_2^2a - x'^2\hat{x}_2b + \hat{x}_1^2\hat{x}_2b + x'^2\hat{x}_1b + x'^2(\hat{x}_2 + \hat{x}_1)(b - a) - \hat{x}_1\hat{x}_2x'(b - a) - x'^3(b - a)$$

$$q(x) = \hat{x}_2y_1 - \hat{x}_1y_2 - \hat{x}_1\hat{x}_2^2a + \hat{x}_1^2\hat{x}_2b - y_1x' + y_2x' + (\hat{x}_2 + \hat{x}_1)\hat{x}_2ax' - (\hat{x}_2 + \hat{x}_1)\hat{x}_1bx' - \hat{x}_1\hat{x}_2(b - a)x' + \hat{x}_1bx'^2 - \hat{x}_2ax'^2 + (\hat{x}_2 + \hat{x}_1)(b - a)x'^2 - (b - a)x'^3$$

$$q(x) = [\hat{x}_2y_1 - \hat{x}_1y_2 - \hat{x}_1\hat{x}_2^2a + \hat{x}_1^2\hat{x}_2b] + [-y_1 + y_2 + (\hat{x}_2 + \hat{x}_1)\hat{x}_2a - (\hat{x}_2 + \hat{x}_1)\hat{x}_1b - \hat{x}_1\hat{x}_2(b - a)]x' + [\hat{x}_1b - \hat{x}_2a + (\hat{x}_2 + \hat{x}_1)(b - a)]x'^2 + [- (b - a)]x'^3$$

$$q(x) = [\hat{x}_2y_1 - \hat{x}_1y_2 - \hat{x}_1\hat{x}_2^2a + \hat{x}_1^2\hat{x}_2b] + [-y_1 + y_2 + (\hat{x}_2 + \hat{x}_1)(\hat{x}_2a - \hat{x}_1b) - \hat{x}_1\hat{x}_2(b - a)]x' + [\hat{x}_1b - \hat{x}_2a + (\hat{x}_2 + \hat{x}_1)(b - a)]x'^2 + [a - b]x'^3$$

$$q(x) = [\hat{x}_2y_1 - \hat{x}_1y_2 - \hat{x}_1\hat{x}_2^2a + \hat{x}_1^2\hat{x}_2b] + [\frac{-y_1 + y_2 + (\hat{x}_2 + \hat{x}_1)(\hat{x}_2a - \hat{x}_1b) - \hat{x}_1\hat{x}_2(b - a)}{x_2 - x_1}]x + [\frac{\hat{x}_1b - \hat{x}_2a + (\hat{x}_2 + \hat{x}_1)(b - a)}{(x_2 - x_1)^2}]x^2 + [\frac{a - b}{(x_2 - x_1)^3}]x^3$$