

$$= (2x_2+1) + (2\Delta x_{12}) \frac{(-\Delta_2 + \Delta_1) - 2(-\Delta_2 + \Delta_1)(2x_1x_1' + x_1 + x_1') - 2\alpha(2x_1x_1' + x_1 + x_1')}{(2x_1+1)(2x_1'+1)}$$

$$+ \frac{-2\gamma - 1}{(2x_1+1)(2x_1'+1)}$$

$$= (2x_2+1)(2\Delta x_{12}) + 2\Delta x_{12} \cdot (-\Delta_2 + \Delta_1) \frac{1 - 2(2x_1x_1' + x_1 + x_1')}{(2x_1+1)(2x_1'+1)}$$

$$+ \frac{-2\alpha(2x_1x_1' + x_1 + x_1') - 2\gamma - 1}{(2x_1+1)(2x_1'+1)}$$

(2)

(7)

$$(2x_1+1)(2x_1'+1) = 2 \cdot (2x_1x_1' + x_1 + x_1') + 1$$

$$(2) = - \frac{2\alpha(2x_1x_1' + x_1 + x_1') + 2\gamma + 1}{(2x_1+1)(2x_1'+1)}$$

→ Be $\gamma = 0$ and $\alpha = 1$

$$= - \frac{2 \cdot 1 \cdot (2x_1x_1' + x_1 + x_1') + 2 \cdot 0 + 1}{(2x_1+1)(2x_1'+1)}$$

$$= -1$$

$$(1) = + 2\Delta x_{12}(-\Delta_2 + \Delta_1) \frac{-2(2x_1x_1' + x_1 + x_1') + 1}{(2x_1+1)(2x_1'+1)}$$

$$= -2\Delta x_{12}(-\Delta_2 + \Delta_1) \frac{2(2x_1x_1' + x_1 + x_1') + 1 - 2}{(2x_1+1)(2x_1'+1)}$$

$$= -2\Delta x_{12}(-\Delta_2 + \Delta_1) \left[1 + \frac{-2}{(2x_1+1)(2x_1'+1)} \right]$$

$$= -2\Delta x_{12}(-\Delta_2 + \Delta_1)$$

?

$$- \frac{2 \cdot 2\Delta x_{12}(-\Delta_2 + \Delta_1)}{(2x_1+1)(2x_1'+1)} \quad (eq 1)$$

We have: $x_2 = x_1 + \Delta x_{12} \Rightarrow \Delta x_{12} = x_2 - x_1$

$$\text{and } (2x_2+1) = (2x_1+1)(2x_1'+1)$$