



$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1) \cdot 1$$

$$+ 2\Delta x_{112} \frac{2 \cdot \alpha (2x_1 x_1' + x_1 + x_1') + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$\alpha = 1$ $\gamma = 0$

$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1) + 2\Delta x_{112} \cdot 1$$

$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1 + 1)$$

~~$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1 + 1)$$~~

$$\Rightarrow u_2 = (-\Delta_2 + \Delta_1 + 1)(2x_1 x_1' + x_1 + x_1') + 1$$

$$= [(2x_1 + 1)(2x_1' + 1) \frac{1}{2} - 1]$$

$$\text{Be } u_2 = (-\Delta_2 + \Delta_1 + \alpha)(2x_1 y_1 + x_1 + y_1) + \gamma$$

$$\Rightarrow 2u_1 + 1 = (2u_2 + 1) + 2\Delta x_{112} \frac{(-\Delta_2 + \Delta_1) + 2 \cdot (-\Delta_2 + \Delta_1 + \alpha)(2x_1 y_1 + x_1 + y_1) + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$$= (2u_2 + 1) + 2\Delta x_{112} \frac{(-\Delta_2 + \Delta_1) + 2 \cdot (-\Delta_2 + \Delta_1 + \alpha)(2x_1 y_1 + x_1 + y_1) + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1) \frac{1 + 2 \cdot (2x_1 y_1 + x_1 + y_1)}{(2x_1 + 1)(2x_1' + 1)} + 2\Delta x_{112} \frac{2\alpha(2x_1 y_1 + x_1 + y_1) + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$$+ 2\Delta x_{112} \frac{2\alpha(2x_1 y_1 + x_1 + y_1) + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$$= (2u_2 + 1) + 2\Delta x_{112} (-\Delta_2 + \Delta_1) \frac{2 \cdot ((2x_1 + 1)(2y_1 + 1) - 1) \frac{1}{2} + 1}{(2x_1 + 1)(2x_1' + 1)}$$

$$+ 2\Delta x_{112} \frac{2\alpha((2x_1 + 1)(2y_1 + 1) - 1) \frac{1}{2} + 2\gamma + 1}{(2x_1 + 1)(2x_1' + 1)}$$



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$$(2x_1 + 1)(2x_1' + 1)$$

~~$$= (2x_1 + 1)(2x_1' + 1)$$~~

$$= 2(2x_1 x_1' + x_1 + x_1') + 1$$

