

$$\boxed{\text{I}} \quad \bar{n}_1 = (2x_1 + 1)(2u_1 + 1) - 2\Delta x_{12} \Delta_1 \quad (\text{eq. 1})$$

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Be $x_2 > x_1$ ($x_2 = x_1 + \Delta x_{12}$)
 $x_1 = x_2 - \Delta x_{12}$
 $\Delta x_{12} = x_2 - x_1$

1. Substitute: $x_2 = x_1 + \Delta x_{12}$

$$(\text{eq. 2}) O = (2x_2 + 1)(2u_2 + 1) - (2x_1 + 1)(2u_1 + 1) + 2\Delta x_{12}(-\Delta_2 + \Delta_1)$$

$$O = (2(x_1 + \Delta x_{12}) + 1)(2u_2 + 1) - (2x_1 + 1)(2u_1 + 1) + 2\Delta x_{12}(-\Delta_2 + \Delta_1)$$

$$= (2x_1 + 1)(2u_2 + 1) + 2\Delta x_{12}(2u_2 + 1) - (2x_1 + 1)(2u_1 + 1) + 2\Delta x_{12}(-\Delta_2 + \Delta_1)$$

$$(2x_1 + 1)(2u_1 + 1) = (2x_1 + 1)(2u_2 + 1) + 2\Delta x_{12}(2u_2 + 1) + 2\Delta x_{12}(-\Delta_2 + \Delta_1)$$

$$(\text{eq. 3.}) \quad || \quad (2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{12} \quad \begin{array}{l} (2u_2 + 1) + 2\Delta x_{12} \\ (2u_2 + 1) + (-\Delta_2 + \Delta_1) \\ \hline (2x_1 + 1) \end{array}$$

Case: $\Delta x_{12} = n \cdot (2x_1 + 1)$ (That is equal to $(2x_2 + 1) = (2x_1 + 1)(2u_2 + 1)$)

$$(2u_1 + 1) = (2u_2 + 1) + 2 \cdot n \cdot (2x_1 + 1) \quad \frac{(2u_2 + 1) + (-\Delta_2 + \Delta_1)}{2x_1 + 1}$$

$$(2u_1 + 1) = (2u_2 + 1) + 2 \cdot n \cdot (2u_2 + 1) + (-\Delta_2 + \Delta_1)$$

Solve this for $u_2 + 1$: $(2u_2 + 1)$

$$(2u_1 + 1) = (2u_2 + 1) (2n + 1) + (-\Delta_2 + \Delta_1)$$

$$(2u_2 + 1) = \frac{(2u_1 + 1) - (-\Delta_2 + \Delta_1)}{2n + 1}$$

We need integer solutions for this!

$$\Rightarrow \text{Be } u_1 = (-\Delta_2 + \Delta_1 - 1)(2u_1 + 1 + \Delta_1)$$

$$(2u_2 + 1) = \frac{2 \cdot (-\Delta_2 + \Delta_1 - 1)(2u_1 + 1 + \Delta_1) + 1 - (-\Delta_2 + \Delta_1)}{2n + 1}$$

$$= \frac{2 \cdot (-\Delta_2 + \Delta_1 - 1)((2n + 1)(2u_1 + 1) - 1) \frac{1}{2} + 1 - (-\Delta_2 + \Delta_1)}{2n + 1}$$

$$\begin{aligned}
 (2\gamma_2 + 1) &= \frac{2 \cdot (-\Delta_2 + \Delta_1 - 1) (2u+1) (2\gamma_1 + 1) \cdot \frac{1}{2} - \cancel{2} \cdot (-\Delta_2 + \Delta_1 - 1) \cdot \cancel{\frac{1}{2}} + 1 - (-\Delta_2 + \Delta_1)}{2u+1} \\
 &= -(-\Delta_2 + \Delta_1 - 1) \star -(-\Delta_2 + \Delta_1 - 1) \\
 &= (-\Delta_2 + \Delta_1 - 1) (\cancel{2u+1} (2\gamma_1 + 1)) + \frac{-(-\Delta_2 + \Delta_1 - 1) + 1 - (-\Delta_2 + \Delta_1)}{2u+1} \\
 &= (-\Delta_2 + \Delta_1 - 1) (2\gamma_1 + 1) \star -2 \frac{(-\Delta_2 + \Delta_1 - 1)}{2u+1} \quad \downarrow
 \end{aligned}$$

$$\text{Or Be: } u_1 = -(-\Delta_2 + \Delta_1 - 1)(2u_{Y_1} + u_{X_1})$$

$$(2k_2+1) = \frac{-2(-\Delta_2 + \Delta_1 - 1)(2n+1)(2\gamma_1 + 1)^{\frac{1}{2}} + \cancel{2(-\Delta_2 + \Delta_1 - 1)^{\frac{1}{2}} + 1 - (\Delta_2 + \Delta_1)}}{2n+1}$$

$$= -(-\Delta_2 + \Delta_1 - 1)(2z_1 + 1) + \frac{(\Delta_2 + \Delta_1 - 1)}{2n+1} (-\Delta_2 + \Delta_1 - 1) = 0$$

$$(24_2 + 1) = -(-\Delta_2 + \Delta_1)(-1)(2y+1)$$

$$U_2 = \left(-(-\lambda_2 + \Delta_1 - 1)(2\gamma_1 + 1) - 1 \right) \frac{1}{2}$$

$$= -(-\Delta_2 + \Delta_1 - 1) ((2y_1 + 1) - 1) \frac{1}{2}$$

$$u_2 = -(-\alpha_2 + \alpha_1 - 1) y_1 \quad \text{arbitrary!} \quad (\cancel{(y_1 = 2, y_2 = 1) + (y_1 = 3, y_2 = 1)})$$

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Case 1: $\Delta x_{1,2} \neq n \cdot (2x_1 + 1)$:

$$(eq.3) \quad (2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{12} \quad \frac{(2u_2 + 1) + (-\Delta_2 + \Delta_1)}{(2x_1 + 1)}$$

$$\text{Be } 4_2 = (-\Delta_2 + \Delta_1 + 1)(2x_1y_1 + x_1 + y_1)$$

$$= (-\Delta_2 + \Delta_1 + 1) ((2\gamma_1 + 1)(2\gamma_1 + 1) - 1) \frac{1}{3}$$

$$\Rightarrow (2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} \frac{(-2 \cdot (-\Delta_2 + \Delta_1 + 1)((-2 \times 1 + 1)(2\gamma_1 + 1) - 4)) / 2 + 1 + (\Delta_1 + \Delta_2)}{(2 \times 1 + 1)}$$

$$= (2\Delta_2 + \alpha) + 2\Delta x_{1,2} \cancel{(-\Delta_2 + \Delta_1 + 1)(2x_1 + \alpha)(2y_1 + \beta)} + 1 + \cancel{-\Delta_1 + \alpha_1}$$

$$= (2\Delta_2 + 1) + 2\Delta_2 \gamma_2 \left[(-\Delta_2 + \Delta_1 + 1)(2\gamma_1 + 1) + (-\Delta_2 + \Delta_1 + 1) \right]$$

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$$\Rightarrow (2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} \frac{2 \cdot (-\Delta_2 + \Delta_1 + 1)(2x_1y_1 + x_1 + y_1) + (1 + \Delta_2 + \Delta_1)}{2x_1 + 1}$$

$$(2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} \frac{2 \cdot (-\Delta_2 + \Delta_1)(2x_1y_1 + x_1 + y_1) + 2(2x_1y_1 + x_1 + y_1)}{2x_1 + 1}$$

$$+ 2\Delta x_{1,2} \cdot \frac{(1 + \Delta_2 - \Delta_1 + 1)}{2x_1 + 1}$$

$$= (2u_2 + 1) + 2\Delta x_{1,2} \left[\frac{(-\Delta_2 + \Delta_1 + 1)}{2x_1 + 1} \right] \frac{2 \cdot (2x_1y_1 + x_1 + y_1) + 1}{2x_1 + 1}$$

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

$$= (2u_2 + 1) + 2\Delta x_{1,2} (-\Delta_2 + \Delta_1 + 1) \frac{(2x_2 - x_1)(2y_1 + 1) + -1 \cdot \frac{1}{2}}{2x_1 + 1}$$

$$\boxed{(2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} (-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)}$$

$$(2u_1 + 1) = 2 \left[(2x_1 + 1)(2y_1 + 1) - 1 \right] \frac{1}{2} + 1 + 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)$$

$$\cancel{2u_1 + 1 = (2x_1 + 1)(2y_1 + 1) - 1 + 1 + 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)}$$

$$\cancel{(2u_1 + 1) = (2x_1 + 1)(2y_1 + 1) + 2x_2 (-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)}$$

$$\cancel{= (2y_1 + 1) [(2x_1 + 1) + 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1)]}$$

$$\cancel{(u_1 = (2y_1 + 1) [(2x_1 + 1) + 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1)] - 1) \frac{1}{2}}$$

$$\cancel{(2u_1 + 1) = (2y_1 + 1) 2x_1 + (2y_1 + 1) + (2x_2 - 2x_1)(-\Delta_2 + \Delta_1 + 1)}$$

$$\cancel{= (2y_1 + 1) \left[(2x_1 + 1) + 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1) \right]}$$

$$\cancel{= 2x_1 + 1 + 2x_2 (-\Delta_2 + \Delta_1 + 1) - 2x_1(-\Delta_2 + \Delta_1 + 1)}$$

$$\cancel{= 2(x_2 - x_1)}$$

$$\cancel{(2u_1 + 1) = 2 \cdot (-\Delta_2 + \Delta_1 + 1)(2x_1y_1 + x_1 + y_1) + 1 + 2x_2 (-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)}$$

$$\cancel{= (-\Delta_2 + \Delta_1 + 1) \left[2(2x_1y_1 + x_1 + y_1) + 2(x_2 - x_1)(2y_1 + 1) \right] + 1}$$

$$\cancel{= (2x_1 + 1)(2y_1 + 1) - 1 \cdot \frac{1}{2}}$$

$$\cancel{= (-\Delta_2 + \Delta_1 + 1) \left[(2x_1 + 1)(2y_1 + 1) - 1 + 2(x_2 - x_1)(2y_1 + 1) \right]}$$

$$(2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} (-\Delta_2 + \Delta_1 + 1) (2y_1 + 1)$$

$$= \{2(-\Delta_2 + \Delta_1 + 1)(2x_1 + 1)(2y_1 + 1) - 1\} \frac{1}{2} + 1$$

$$+ 2(x_2 - x_1)(-\Delta_2 + \Delta_1 + 1)(2y_1 + 1)$$

$$= (-\Delta_2 + \Delta_1 + 1)(2x_1 + 1)(2y_1 + 1) - (-\Delta_2 + \Delta_1 + 1) + 1$$

$$+ 2x_2(-\Delta_2 + \Delta_1 + 1)(2y_1 + 1) - 2x_1(-\Delta_2 + \Delta_1 + 1)$$

$$= (-\Delta_2 + \Delta_1 + 1) [(2x_1 + 1)(2y_1 + 1) - 1 + 2x_2 - 2x_1] + 1$$

$$(2u_1 + 1) = (-\Delta_2 + \Delta_1 + 1) [2(2x_1 y_1 + x_1 + y_1) + 1 - 1 + 2x_2 - 2x_1] + 1$$

$$= (-\Delta_2 + \Delta_1 + 1) [2^2 x_1 y_1 + 2x_1 + 2y_1 + 2x_2 - 2x_1] + 1$$

$$= (-\Delta_2 + \Delta_1 + 1) [2^2 x_1 y_1 + 2y_1 + 2x_2] + 1$$

$$= (-\Delta_2 + \Delta_1 + 1) [2 \cdot (2x_1 y_1 + y_1 + x_2)] + 1$$

$$\boxed{\text{Be } (2u_2 + 1) = (-\Delta_2 + \Delta_1) \cdot 2 \cdot (2x_1 y_1 + x_1 + y_1) + \cancel{2 \cdot (2x_1 + 1)}}$$

$$\Rightarrow (\text{eq. 3}) \boxed{(2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} \frac{(2u_2 + 1) + (-\Delta_2 + \Delta_1) + \cancel{2 \cdot (2x_1 + 1)}}{2x_1 + 1}}$$

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

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

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

$$\boxed{(2u_1 + 1) = (2u_2 + 1) + 2\Delta x_{1,2} (-\Delta_2 + \Delta_1) (2y_1 + 1) + \cancel{2 \cdot ((2x_1 + 1)(2y_1 + 1) - 1) \frac{1}{2} + 1} + 2\Delta x_{1,2}}$$

~~$$(2u_1 + 1) = 2 \cdot (-\Delta_2 + \Delta_1) \cdot 2 \cdot (2x_1 y_1 + x_1 + y_1) + 1 + 2(x_2 - x_1)(-\Delta_2 + \Delta_1)$$~~

$$\begin{aligned}
 & (2u_1+1) = (-\Delta_2 + \Delta_1) \cdot 2 \left[2((2x_1+1)(2y_1+1)-1) \frac{1}{2} \right. \\
 & \quad \left. + (x_2 - x_1)(2y_1+1) \right] \\
 & \quad + 1 \\
 & = (-\Delta_2 + \Delta_1) \cdot 2 \left[(2x_2+1)(2y_1+1)-1 + (x_2 - x_1)(2y_1+1) \right] + 1 \\
 & = (-\Delta_2 + \Delta_1) \cdot 2 \left[(2y_1+1)(2x_1+1 + x_2 - x_1) - 1 \right] + 1 \\
 & = (-\Delta_2 + \Delta_1) \cdot 2 \cdot \left[(2y_1+1)(x_1 + x_2 + 1) - 1 \right] + 1 \\
 & = \cancel{-4x_{1,2}} \cancel{x_2 - \Delta x_{1,2}}
 \end{aligned}$$

$$\begin{aligned}
 & (2u_1+1) = (-\Delta_2 + \Delta_1) \cdot 2 \cdot (2x_2y_2 + x_2 + y_2) \\
 & \quad \cancel{x_2 = x_1 + \Delta x_{1,2}} \\
 & \quad \cancel{x_2 = x_1 + 1}
 \end{aligned}$$

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$$\begin{aligned}
 & (2u_1+1) = (2u_2+1) + 2\Delta x_{1,2} (-\Delta_2 + \Delta_1) (2y_1+1) \\
 & \quad \cancel{(x_2 - x_1)} \\
 & = (-\Delta_2 + \Delta_1) \cdot 2 (2x_1y_1 + x_1 + y_1) \\
 & \quad + 2 \cdot (x_2 - x_1) (-\Delta_2 + \Delta_1) (2y_1+1) \\
 & = (-\Delta_2 + \Delta_1) \left[2 \cdot \underbrace{(2x_1y_1 + x_1 + y_1)}_{= (2x_1+1)(2y_1+1) \cancel{\frac{1}{2}} - 1} + 2(x_2 - x_1)(2y_1+1) \right] \\
 & \quad = (2x_1+1)(2y_1+1) \cancel{\frac{1}{2}} - 1 \quad \text{be } (2x+1) \cdot \beta \\
 & = (-\Delta_2 + \Delta_1) \left[(2x_1+1)(2y_1+1) - 1 + 2 \cancel{(x_2 - x_1)}(2y_1+1) \right] \\
 & = (-\Delta_2 + \Delta_1) \left[2 \cdot 2x_1y_1 + 2x_1 + 2y_1 + 1 - 1 + 2 \cdot (2x_1+1)\beta(2y_1+1) \right] \\
 & = (-\Delta_2 + \Delta_1) \left[\underbrace{2 \cdot 2x_1y_1}_{= 2x_1^2y_1} + \underbrace{2x_1 + 2y_1 + 1 - 1}_{= 2x_1^2 + 2x_1y_1} + \underbrace{2x_22y_1 + 2x_2 - 2^2x_1y_1}_{- 2x_1} \right] \\
 & = (-\Delta_2 + \Delta_1) [2^2 \cancel{x_1}y_1 + 2y_1 + 2^2 \cancel{x_2}y_1 + 2x_2 - 2^2 \cancel{x_1}y_1] \\
 & = (-\Delta_2 + \Delta_1) [2y_1 + 2^2 \cancel{x_2}y_1 + 2x_2] \\
 \boxed{1} \quad & (2u_1+1) = (-\Delta_2 + \Delta_1) \cdot 2 (2x_2y_1 + x_2 + y_1) \quad \checkmark \checkmark \checkmark \\
 & \quad + \cancel{4} \cdot (2x_2+1)
 \end{aligned}$$

$$\begin{aligned}
 &= (-\Delta_2 + A_1) \left[\underbrace{2 \cdot 2x_1 y_1}_{\sim} + \underbrace{2x_1 + 2y_1 + 1 - 1}_{\cancel{\text{+}}} + \right. \\
 &\quad \left. \frac{2^3 x_1 \beta y_1 + 2^2 x_1 \beta}{2^3 \beta y_1 + 2 \beta} \right] \\
 &= f(\Delta_2 + A_1) \left[\underbrace{2 \cdot 2x_1 y_1}_{\sim} + \underbrace{x_1(2 + 2^2 \beta)}_{\sim} + \underbrace{y_1(2 + 2^2 \beta)}_{\sim} + 2^3 x_1 \beta y_1 + 2 \beta \right] \\
 &= (-\Delta_2 + A_1) \cdot 2 \left[\underbrace{2x_1 y_1}_{\sim} + \underbrace{x_1(1 + 2\beta)}_{\sim} + \underbrace{y_1(1 + 2\beta)}_{\sim} + 2^2 x_1 \beta y_1 + \beta \right]
 \end{aligned}$$

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$$\begin{aligned}
 & 2 \cdot x_2 y_1 + x_2 + y_1 \\
 = & 2 \cdot (2x_1 + 1)\beta y_1 + (2x_1 + 1)\beta + y_1 \\
 = & \underline{2^2 x_1 \beta y_1} + \underline{2 \beta y_1} + \underline{2 x_1 \beta} + \underline{\beta + y_1}
 \end{aligned}$$

$$= (-\Delta_2 + \Delta_1) \cdot 2 \left[(2x_2 y_1 + x_2 + y_1) + 2x_1 y_1 + x_1 \right]$$

$$= 1 - \Delta_2 + \Delta_2) - 2 \left[(2x_2 y_1 + x_2 + y_2) + (2y_1 + 1)x_2 \right]$$

For $\Delta x_{1/2} = (2x_1 + 1)\beta$ follows

$$(2x_1+1) = (-\Delta_2 + \Delta_2) \cdot 2 \underbrace{(2x_2 y_1 + x_2 + y_1)}_{(2x_2+1)(2y_1+1)-1} + 2 \cdot (2y_1+1)x_1$$

$(2x_2+1)(2y_1+1)-1$ $2 \cdot (2y_1+1)x_1$

$$= (-\Delta_2 + \Delta_1) \left[\underbrace{(2\gamma_2 + 1)(2\gamma_1 + 1)}_{= 2 \cdot (2\gamma_1 + 1)} - 1 + 2 \cdot (2\gamma_1 + 1) x_1 \right] = 2 \cdot (2\gamma_1 + 1) y_1 - 2y_1$$

$$= (-\Delta_2 + \Delta_1) \left[(2y_1 + 1) \left[\underbrace{(2 \times 2 + 1)}_{\text{...}} + 2 \times 1 \right] - 1 \right]$$

$$T = (-\Delta_2 + \Delta_1) \left[(2y_1 + x) (2(x_1 + y) + 1) (-1) \right]$$

$$= \left(-\frac{1}{2}x_2 + \frac{1}{2} \right) \left[\frac{1}{2}x_1^2 + x_1(x_1 + 2x_2 + 2x_3) + x_1 + x_2 + x_3 + 1 + (-k) \right]$$

$$\cancel{(-\Delta_1 + \Delta_1)} = 2 \cdot (2y_1(x_1+1) + y_1 + (x_1+1))$$

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$$(2u_{1+1}) = (-\Delta_2 + \Delta_1) \cdot (2 \cdot (2x_2 y_1 + x_2^1 + y_1))$$

$$x_1 + \Delta x_{12}$$

$$(2 \times 1 + 1)P$$

$$\cancel{2((2x_2+1)+1)} y_1$$

$$(2x_2+1)y_1 + (2x_1+1)y_2$$

$$= (2x_7 + 1 + 2x_1 + 1) \vee,$$

$$= (2(x_2 + x_1) + 7)_{+}$$

$$= 2((x_2 + x_1) + 1) + \boxed{0}$$

$$\cdot (2x_1 + 1) y_1 =$$

$$(2x_1 + 1) = 1 - \Delta_2 + \Delta_1 - 2 \left(2x_2 y_1 + x_2 + y_1 - y_1 \right) + 2 \cdot (2x_1 + 1) y_1$$

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$$(2u_1 + 1) = (2u_2 + 1) + 2 \cdot \Delta x_{1,2} \frac{(2u_2 + 1) + (-\Delta_2 + \Delta_1)}{2x_1 + 1}$$

$$\Delta x_{1,2} = n(2x_1 + 1)$$

$$= (2u_2 + 1) + 2 \cdot n(2u_2 + 1) + (-\Delta_2 + \Delta_1)$$

$$= (2u_2 + 1) + 2 \cdot n \cdot (-\Delta_2 + \Delta_1) \cdot 2(2x_1 y_1 + x_1 y_1 - 1) + (-\Delta_2 + \Delta_1)$$

$$= (2u_2 + 1) + 2 \cdot (-\Delta_2 + \Delta_1) (2n(2x_1 y_1 + x_1 y_1 - 1) + 1)$$

$$= (2u_2 + 1) + 2 \cdot (-\Delta_2 + \Delta_1) \cdot (n \cdot (2x_1 + 1)(2y_1 + 1) - 1 + 1)$$

$$= (2u_2 + 1) + 2 \cdot (-\Delta_2 + \Delta_1) \cdot n \cdot (2x_1 + 1)(2y_1 + 1)$$

$$(2u_1 + 1) = (2u_2 + 1) + 2 \cdot \left(n \cdot \underbrace{(2x_1 + 1)}_{x_2 - \Delta x_{1,2}} \right) (-\Delta_2 + \Delta_1) \cdot (2y_1 + 1)$$

$$B \in (2u_2 + 1) = (-\Delta_2 + \Delta_1) \cdot 2(2x_1 y_1 + x_1 y_1 - 1) + 2(2x_1 + 1)$$

$$(2u_1 + 1) = (2u_2 + 1) + 2 \Delta x_{1,2} \frac{(-\Delta_2 + \Delta_1) \cdot 2(2x_1 y_1 + x_1 y_1 - 1) + 2(2x_1 + 1)}{2x_1 + 1}$$

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

$$+ 2 \Delta x_{1,2} \frac{2(2x_1 + 1)(2y_1 + 1) - 1}{2x_1 + 1}$$

$$= (2u_2 + 1) + 2 \Delta x_{1,2} ((-\Delta_2 + \Delta_1)(2y_1 + 1) + 2)$$

$$(2u_1 + 1) = (2u_2 + 1) + 2 \Delta x_{1,2} (-\Delta_2 + \Delta_1)(2y_1 + 1)$$

$$+ 2 \Delta x_{1,2} 2$$

$$= (-\Delta_2 + \Delta_1) \cdot 2(2x_1 y_1 + x_1 y_1 - 1) + 2(2x_1 + 1)$$

$$+ 2 \Delta x_{1,2} (-\Delta_2 + \Delta_1)(2y_1 + 1) + 2 \Delta x_{1,2} 2$$

$$(2u_1 + 1) = (-\Delta_2 + \Delta_1) \cdot 2(2x_2 y_1 + x_2 y_1 - 1) + 2(2x_1 + 1) + 2 \Delta x_{1,2} 2$$

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 $2x_1 + 1 + 2x_2$

$$= 2 \cdot (x_1 + \Delta x_{1,2}) + 1$$

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$$= 2x_2 + 1$$

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$$= 2(2x_2 + 1)$$