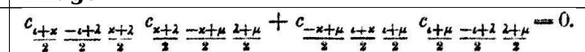
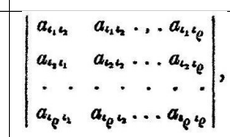
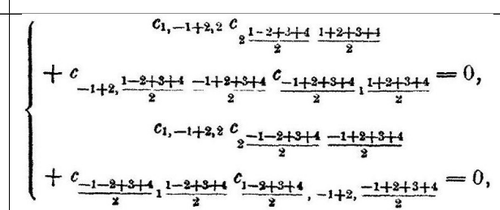
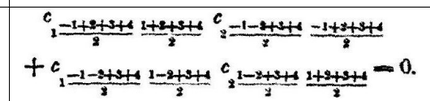
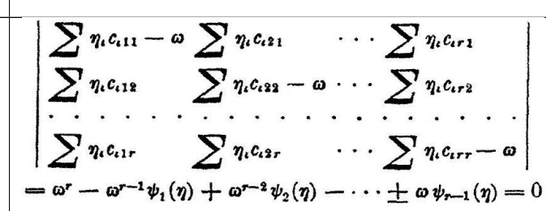
killing1889: residuals

equations measured 2026-10-14T05:51:46Z against the model of 2026-10-13

Flagged, not acted on

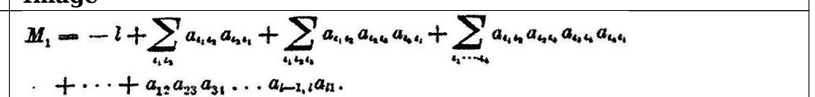
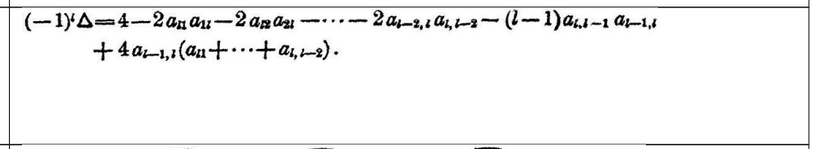
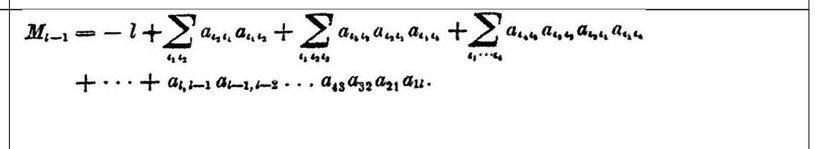
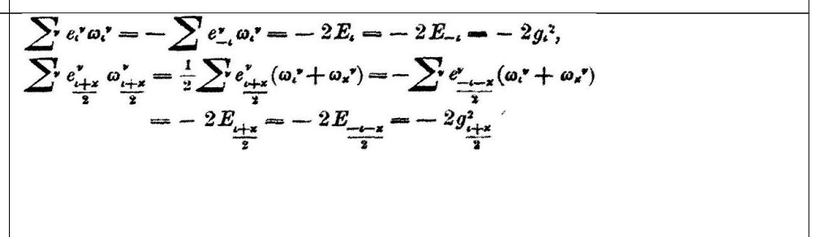
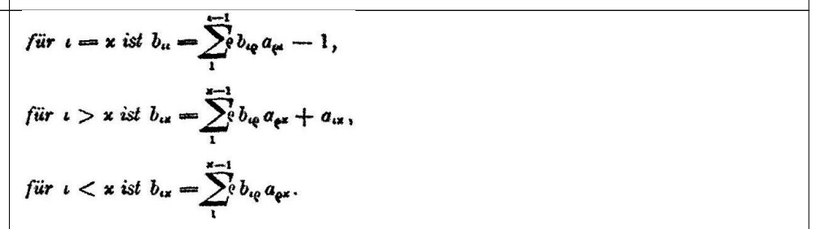
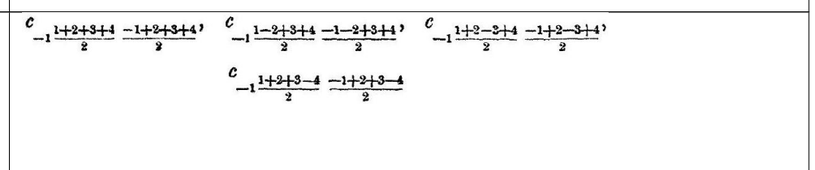
Identifier	Page	Conf.	LaTeX source	Rendered	Image
killing1889_ EQ0158 (10) **[conf 0.017]**	41	■ 0.017 ● C|-21	`c_{\frac{1+x}{2}}=\frac{-+\lambda}{2} \frac{x+2}{2} c_{ \frac{x+2}{2}} \frac{-x+\mu}{2} \frac{2+\mu}{2}+c_{\frac {-x+\mu}{2}}^{\frac{4+x}{2}} \frac{4+\mu}{2} c_{\frac{4+ \mu}{2}}=\frac{-4+2}{2} \frac{2+\mu}{2}=0 .`	$c_{\frac{1+x}{2}} = \frac{-+\lambda}{2}\frac{x+2}{2} c_{\frac{x+2}{2}} \frac{-x+\mu}{2}\frac{2+\mu}{2} + c_{\frac{-x+\mu}{2}}\frac{4+x}{2}\frac{4+\mu}{2} c_{\frac{4+\mu}{2}} = \frac{-4+2}{2}\frac{2+\mu}{2} = 0.$	
killing1889_EQ0088	22	■ 0.173 ● C|-31	`\left|\begin{array}{cccc} a_{i_{1} i_{2}} & a_{i_{2} i_{2}} & \ldots & a_{i_{2} i_{\rho}} \\ a_{i_{2} i_{1}} & a_{i_{2} i_{2}} & \ldots & a_{i_{2} i_{\rho}} \\ \cdot & \cdot & \cdot & \cdot \\ a_{i_{p} i_{2}} & a_{i_{p} i_{2}} & \ldots & a_{i_{p} i_{p}} \end{array}\right|,`	$\begin{vmatrix} a_{i_1 i_2} & a_{i_2 i_2} & \ldots & a_{i_2 i_\rho} \\ a_{i_2 i_1} & a_{i_2 i_2} & \ldots & a_{i_2 i_\rho} \\ \cdot & \cdot & \cdot & \cdot \\ a_{i_p i_2} & a_{i_p i_2} & \ldots & a_{i_p i_p} \end{vmatrix},$	
killing1889_ EQ0185 (2)	46	■ 0.646 ● C|-35	`\left\{\begin{array}{c} c_{1,-1+2,2} c_{2} \frac{1-2+3+4}{2} \frac{1+2+3+4}{2} \\ +c_{-1+2, \frac{1-2+3+4}{2}-1+2+3+4}^{2} \frac{c_{-1+2+3+4}}{2} \frac{1+2+3+4}{2}=0, \\ c_{1,-1+2,2} c_{2} \frac{-1-2+3+4}{2} \frac{-1+2+3+4}{2} \\ +c_{\frac{-1-2+3+4}{2}} \frac{1-2+3+4}{2} \frac{c_{1-2+3+4}}{2}, -1+2, \frac{-1+2+3+4}{2}=0, \end{array}\right.`	$\begin{cases} c_{1,-1+2,2}\, c_2 \frac{1-2+3+4}{2} \frac{1+2+3+4}{2} \\ \quad + c^2_{-1+2, \frac{1-2+3+4}{2}} {}_{-1+2+3+4} \frac{c_{-1+2+3+4}}{2} \frac{1+2+3+4}{2} = 0, \\ c_{1,-1+2,2} c_2 \frac{-1-2+3+4}{2} \frac{-1+2+3+4}{2} \\ \quad + c_{\frac{-1-2+3+4}{2}} \frac{1-2+3+4}{2} \frac{c_{1-2+3+4}}{2}, -1+2, \frac{-1+2+3+4}{2} = 0, \end{cases}$	
killing1889_ EQ0186 (3)	47	— ● C|-37	`\begin{gathered} c_{1} \frac{-1+2+3+4}{2} \frac{1+2+3+4}{2} c_{2} \frac{-1-2+4+4}{2} \frac{-1+2+3+4}{2} \\ +c_{1} \frac{-1-2+4+1}{2} \frac{1-2+3+1}{2} c_{2} \frac{1-2+3+1}{2} \frac{1+2+3+4}{2}=0 . \end{gathered}`	$\begin{gathered} c_1 \frac{-1+2+3+4}{2} \frac{1+2+3+4}{2} c_2 \frac{-1-2+4+4}{2} \frac{-1+2+3+4}{2} \\ + c_1 \frac{-1-2+4+1}{2} \frac{1-2+3+1}{2} c_2 \frac{1-2+3+1}{2} \frac{1+2+3+4}{2} = 0. \end{gathered}$	
killing1889_EQ0004	2	— ● C|+35	`\frac{\left.\left\lvert\, \begin{array}{ccc} \sum \eta_{i} c_{i 11}-\omega & \sum \eta_{i} c_{i 21} & \cdots \end{ array}\right.\right] \eta_{i} c_{i r 1}}{\sum \eta_{i} c _{i 12}}\left[\left.\begin{array}{ccc} \sum \eta_{i} c_{ i 22}-\omega & \cdots & \sum \eta_{i} c_{i r 2} \\ \sum \eta_{i} c_{i 1 r} & \sum \eta_{i} c_{i 2 r} & \cdots \sum \eta_{i} c_{i r r}-\omega \end{array} \right\rvert\, \right.`	$\frac{\left\lvert \sum \eta_i c_{i11} - \omega \quad \sum \eta_i c_{i21} \quad \cdots \right] \eta_i c_{ir1}}{\sum \eta_i c_{i12}} \left[\begin{array}{ccc} \sum \eta_i c_{i22} - \omega & \cdots & \sum \eta_i c_{ir2} \\ \sum \eta_i c_{i1r} & \sum \eta_i c_{i2r} & \cdots \sum \eta_i c_{irr} - \omega \end{array} \right\rvert$	

Conf. MathPix confidence: ■ ≥0.9 ■ 0.5–0.9 ■ <0.5 — no value

LaTeX source MathPix's reading, unchanged; **Rendered** the same reading, with a display environment (align/alignat/flalign/eqnarray/gather/multline/split) mapped to its in-math form so it can typeset in this cell — the two may legitimately differ

Residual render vs scan (inkdrill): ● C component ● W weak ● S stable ● N noise ● K clean ● X crop overran its region ● not measured

[refined: *basis*] beside an identifier: the LaTeX-source and Rendered cells both show a VERIFIED refinement, not MathPix's own reading — *basis* names what verified it (e.g. ink, source). The original reading is unchanged in the model but is not the one drawn here.

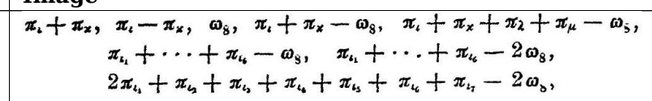
Identifier	Page	Conf.	LaTeX source	Rendered	Image
killing1889_EQ0084	21	— ● C|-29	\begin{aligned} & M_{1}=-l+\sum_{4 l_{2}} a_{4 l_{4}} a_{4 l_{4}}+\sum_{4 l_{4} l_{4}} a_{l_{4} l_{4}} a_{4 l_{4}} a_{4 l_{4}}+\sum_{l_{4} \cdots l_{4}} a_{4 l_{4}} a_{4 l_{4}} a_{4 l_{4} a_{4 l_{4}}} a_{4} a_{4} \\ &+\cdots+a_{12} a_{23} a_{31} \cdots a_{i-1,1} a_{11} . \end{aligned}	$M_1 = -l + \sum_{4l_2} a_{4l_4} a_{4l_4} + \sum_{4l_4 l_4} a_{l_4 l_4} a_{4l_4} a_{4l_4} + \sum_{l_4 \cdots l_4} a_{4l_4} a_{4l_4} a_{4l_4 a_{4l_4}} a_4 a_4 + \cdots + a_{12} a_{23} a_{31} \cdots a_{i-1,1} a_{11}.$	
killing1889_EQ0114	29	— ● C|-29	\begin{aligned} (-1)^{i} \Delta & =4-2 a_{11} a_{1 i}-2 a_{i 2} a_{2 i}-\cdots-2 a_{i-2, l} a_{i, l-2}-(l-1) a_{i, l-1} a_{l-1, l} \\ & +4 a_{l-1, l}\left(a_{l i}+\cdots+a_{l, l-2}\right) . \end{aligned}	$(-1)^i \Delta = 4 - 2a_{11}a_{1i} - 2a_{i2}a_{2i} - \cdots - 2a_{i-2,l}a_{i,l-2} - (l-1)a_{i,l-1}a_{l-1,l} + 4a_{l-1,l}(a_{li} + \cdots + a_{l,l-2}).$	
killing1889_EQ0085	21	— ● C|-26	\begin{aligned} M_{l-1}= & -l+\sum_{l_{1} l_{2}} a_{l_{2} l_{1}} a_{l_{1} l_{2}}+\sum_{l_{2} l_{2} l_{3}} a_{l_{3} l_{4}} a_{l_{2} l_{2}} a_{l_{4} l_{4}}+\sum_{l_{4}+l_{4}} a_{l_{4} l_{4}} a_{l_{4} l_{4}} a_{l_{4} l_{4}} a_{l_{4} l_{4}} \\ & +\cdots+a_{l_{4}-1} a_{l_{1}-1, l_{2}} \cdots a_{l_{4} 3} a_{3_{2}} a_{2_{1}} a_{11} . \end{aligned}	$M_{l-1} = -l + \sum_{l_1 l_2} a_{l_2 l_1} a_{l_1 l_2} + \sum_{l_2 l_2 l_3} a_{l_3 l_4} a_{l_2 l_2} a_{l_4 l_4} + \sum_{l_4 + l_4} a_{l_4 l_4} a_{l_4 l_4} a_{l_4 l_4} a_{l_4 l_4} + \cdots + a_{l_4 - 1} a_{l_{1-1}, l_2} \cdots a_{l_4 3} a_{3_2} a_{2_1} a_{11}.$	
killing1889_EQ0148 (2)	39	— ● C|-26	\begin{gathered} \sum i e_{i}^{v} \omega_{i}^{v}=-\sum e_{-i}^{v} \omega_{i}^{v}=-2 E_{i}=-2 E_{-i}--2 g_{i}^{2}, \\ \sum e_{\frac{i+x}{2}}^{v} \omega_{\frac{i+x}{2}}^{v}=\frac{1}{2} \sum e_{\frac{4+x}{2}}^{v}\left(\omega_{i}^{2}+\omega_{x}^{2}\right)=-\sum \frac{e^{v}-x}{2}\left(\omega_{i}^{v}+\omega_{x}^{\prime}\right) \\ =-2 E_{\frac{4+x}{2}}=-2 E_{\frac{-t-x}{2}}=-2 g_{\frac{i+x}{2}}^{2} \end{gathered}	$\sum i e_i^v \omega_i^v = -\sum e_{-i}^v \omega_i^v = -2E_i = -2E_{-i} - -2g_i^2,$ $\sum e_{\frac{i+x}{2}}^v \omega_{\frac{i+x}{2}}^v = \frac{1}{2}\sum e_{\frac{4+x}{2}}^v (\omega_i^2 + \omega_x^2) = -\sum \frac{e^v - x}{2}(\omega_i^v + \omega_x')$ $= -2E_{\frac{4+x}{2}} = -2E_{\frac{-t-x}{2}} = -2g_{\frac{i+x}{2}}^2$	
killing1889_EQ0078 (2)	19	— ● C|-24	\begin{aligned} & \text { für } \iota=x \text { ist } b_{u}=\sum_{1}^{\infty} b_{b_{e}}^{-1} a_{e x}-1, \\ & \text { für } \iota>x \text { ist } b_{c x}=\sum_{1}^{x-1} b_{c e} a_{e x}+a_{i x}, \\ & \text { für } \iota<x \text { ist } b_{c x}=\sum_{i}^{x-1} b_{c \rho} a_{e x} . \end{aligned}	für $\iota = x$ ist $b_u = \sum_1^\infty b_{b_e}^{-1} a_{ex} - 1,$ für $\iota > x$ ist $b_{cx} = \sum_1^{x-1} b_{ce} a_{ex} + a_{ix},$ für $\iota < x$ ist $b_{cx} = \sum_i^{x-1} b_{c\rho} a_{ex}.$	
killing1889_EQ0183 (a)	46	— ● C|-24	\begin{gathered} c_{-1} \frac{1+2+3+4}{2} \frac{-1+2+3+4}{2}, \quad c_{-1} \frac{1-2+3+4}{2} \frac{-1-2+3+4}{2}, \quad c_{-1} \frac{1+2-3+4}{2} \frac{-1+2-3+4}{2}, \\ c_{-1} \frac{1+2+3-4}{2} \frac{-1+2+3-4}{2} \end{gathered}	$c_{-1}\frac{1+2+3+4}{2}\frac{-1+2+3+4}{2}, \quad c_{-1}\frac{1-2+3+4}{2}\frac{-1-2+3+4}{2}, \quad c_{-1}\frac{1+2-3+4}{2}\frac{-1+2-3+4}{2},$ $c_{-1}\frac{1+2+3-4}{2}\frac{-1+2+3-4}{2}$	

Conf. MathPix confidence: ■ ≥0.9 ■ 0.5–0.9 ■ <0.5 — no value

LaTeX source MathPix's reading, unchanged; **Rendered** the same reading, with a display environment (align/alignat/flalign/eqnarray/gather/multline/split) mapped to its in-math form so it can typeset in this cell — the two may legitimately differ

Residual render vs scan (inkdrill): ● C component ● W weak ● S stable ● N noise ● K clean ● X crop overran its region ● not measured

[refined: *basis*] beside an identifier: the LaTeX-source and Rendered cells both show a VERIFIED refinement, not MathPix's own reading — *basis* names what verified it (e.g. ink, source). The original reading is unchanged in the model but is not the one drawn here.

Identifier	Page	Conf.	LaTeX source	Rendered	Image
killing1889_EQ0194	48	— ● C|-22	`\begin{gathered} \pi_{i}+\pi_{x}, \pi_{i}-\pi_{x}, \omega_{8}, \pi_{i}+\pi_{x}-\omega_{8}, \pi_{i}+\pi_{x}+\pi_{2}+\pi_{\mu}-\omega_{5}, \\ \pi_{i_{1}}+\cdots+\pi_{i_{2}}-\omega_{8}, \pi_{i_{1}}+\cdots+\pi_{i_{6}}-2 \omega_{8}, \\ 2 \pi_{i_{4}}+\pi_{i_{2}}+\pi_{i_{2}}+\pi_{i_{4}}+\pi_{i_{3}}+\pi_{i_{6}}+\pi_{i_{7}}-2 \omega_{8}, \end{gathered}`	$\pi_i + \pi_x, \pi_i - \pi_x, \omega_8, \pi_i + \pi_x - \omega_8, \pi_i + \pi_x + \pi_2 + \pi_\mu - \omega_5,$ $\pi_{i_1} + \cdots + \pi_{i_2} - \omega_8, \pi_{i_1} + \cdots + \pi_{i_6} - 2\omega_8,$ $2\pi_{i_4} + \pi_{i_2} + \pi_{i_2} + \pi_{i_4} + \pi_{i_3} + \pi_{i_6} + \pi_{i_7} - 2\omega_8,$	

Conf. MathPix confidence: ■ ≥0.9 ■ 0.5–0.9 ■ <0.5 — no value

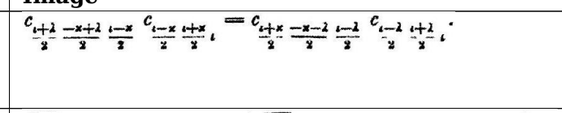
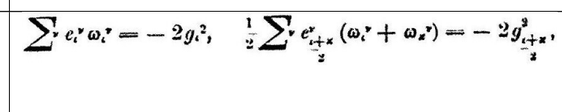
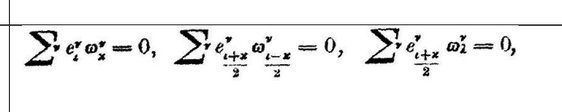
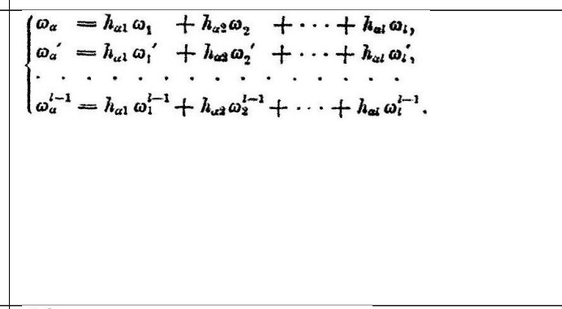
LaTeX source MathPix's reading, unchanged; **Rendered** the same reading, with a display environment (align/alignat/flalign/eqnarray/gather/multline/split) mapped to its in-math form so it can typeset in this cell — the two may legitimately differ

Residual render vs scan (inkdrill): ● C component ● W weak ● S stable ● N noise ● K clean ● X crop overran its region ● not measured

[refined: *basis*] beside an identifier: the LaTeX-source and Rendered cells both show a VERIFIED refinement, not MathPix's own reading — *basis* names what verified it (e.g. ink, source). The original reading is unchanged in the model but is not the one drawn here.

120 more flagged rows below the band, stated as a count: 99 component, 21 weak; confidence high 30, mid 32, low 31, none 27

Low confidence

Identifier	Page	Conf.	LaTeX source	Rendered	Image
killing1889_EQ0157 (9) **[conf 0.006]**	41	■ 0.006 ● X|+3	`c_{\frac{4+2}{2}-x+2 \frac{1-x}{2}} c_{\frac{4-x}{2}} \frac{4+x}{2}, \quad c_{4+x} \frac{-x-2}{2} \frac{1-2}{2} c_{4-2} \frac{4+2}{2}`	$c_{\frac{4+2}{2}-x+2\frac{1-x}{2}} c_{\frac{4-x}{2}} \frac{4+x}{2}, \quad c_{4+x} \frac{-x-2}{2} \frac{1-2}{2} c_{4-2} \frac{4+2}{2}$	
killing1889_EQ0165 **[conf 0.065]**	43	■ 0.065 ● X|+2	`\sum e_{i}^{v} \omega_{i}^{v}=-2 g_{i}^{2}, \quad \frac{1}{2} \sum v_{i+x}^{v}\left(\omega_{i}^{v}+\omega_{x}^{v}\right)=-2 g_{i+x}^{2},`	$\sum e_i^v \omega_i^v = -2g_i^2, \quad \frac{1}{2}\sum v_{i+x}^v \left(\omega_i^v + \omega_x^v\right) = -2g_{i+x}^2,$	
killing1889_EQ0149 (3) **[conf 0.067]**	40	■ 0.067 ● X|+2	`\sum e_{i}^{r} \omega_{x}^{v}=0, \quad \sum e_{\frac{i+x}{2}}^{y} \omega_{\frac{i-x}{2}}^{v}=0, \quad \sum_{\frac{t+x}{2}}^{y} \omega_{z}^{v}=0,`	$\sum e_i^r \omega_x^v = 0, \quad \sum e_{\frac{i+x}{2}}^y \omega_{\frac{i-x}{2}}^v = 0, \quad \sum_{\frac{t+x}{2}}^{y} \omega_z^v = 0,$	
killing1889_EQ0071 (11) **[conf 0.083]**	17	■ 0.083 ● X|+5	`\left\{\begin{array}{l} \omega_{\alpha}=h_{\alpha 1} \omega_{1}+h_{\alpha 2} \omega_{2}+\cdots+h_{\alpha 1} \omega_{1}, \\ \omega_{\alpha}=h_{\alpha 1} \omega_{1}^{\prime}+h_{\alpha \alpha} \omega_{2}^{\prime}+\cdots +h_{\alpha 1} \omega_{2}^{\prime}, \\ \omega_{\alpha}^{\prime-1}=h_{\alpha 1} \omega_{1}^{\prime-1}+h_{\alpha 2} \omega_{2}^{\prime-1}+\cdots+h_{\alpha i} \omega_{l}^{\prime-1} . \end{array}\right.`	$\begin{cases} \omega_\alpha = h_{\alpha 1}\omega_1 + h_{\alpha 2}\omega_2 + \cdots + h_{\alpha 1}\omega_1, \\ \omega_\alpha = h_{\alpha 1}\omega_1' + h_{\alpha\alpha}\omega_2' + \cdots + h_{\alpha 1}\omega_2', \\ \omega_\alpha'^{-1} = h_{\alpha 1}\omega_1'^{-1} + h_{\alpha 2}\omega_2'^{-1} + \cdots + h_{\alpha i}\omega_l'^{-1}. \end{cases}$	
killing1889_EQ0135 (2) **[conf 0.099]**	33	■ 0.099 ●	`\sum_{0}^{L-1} e_{i}^{(\gamma)} \omega_{\alpha}^{(\gamma)}=\sum\left(c_{i+\alpha} c_{i \alpha}-c_{i \alpha} c_{i^{\prime}, \alpha}\right) .`	$\sum_{0}^{L-1} e_i^{(\gamma)} \omega_\alpha^{(\gamma)} = \sum \left(c_{i+\alpha} c_{i\alpha} - c_{i\alpha} c_{i',\alpha}\right).$	

Conf. MathPix confidence: ■ ≥0.9 ■ 0.5–0.9 ■ <0.5 — no value

LaTeX source MathPix's reading, unchanged; **Rendered** the same reading, with a display environment (align/alignat/flalign/eqnarray/gather/multline/split) mapped to its in-math form so it can typeset in this cell — the two may legitimately differ

Residual render vs scan (inkdrill): ● C component ● W weak ● S stable ● N noise ● K clean ● X crop overran its region ● not measured

[refined: *basis*] beside an identifier: the LaTeX-source and Rendered cells both show a VERIFIED refinement, not MathPix's own reading — *basis* names what verified it (e.g. ink, source). The original reading is unchanged in the model but is not the one drawn here.