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$a_{11}a_{12}\dots a_{1n}a_{21}a_{22}\dots a_{2n}:\dots:a_{m1}a_{m2}\dots a_{mn}x_1x_2:\dots:x_n=b_1b_2:\dots:b_n$

$f(x)=\sum_{j=0}^{\infty}f_j0!x^j$

$x^2-9=x^2-3^2=(x-3)(x+3)$

$x^2-9=x^2-\boxed{3}^2$

$ax^2+bx+c=0$ $ax^2+bx=-c$ $x^2+\frac{b}{a}x=-\frac{c}{a}$ Divide out leading coefficient. $x^2+\frac{b}{a}x+\frac{b^2}{4a^2}=-\frac{c}{a}+\frac{b^2}{4a^2}$ Complete the square. $(x+\frac{b}{2a})(x+\frac{b}{2a})=\frac{b^2-4ac}{4a^2}$ Discriminant revealed. $(x+\frac{b}{2a})^2=\frac{b^2-4ac}{4a^2}$ $x+\frac{b}{2a}=\pm\sqrt{\frac{b^2-4ac}{4a^2}}$ There's the vertex formula. $x=-\frac{b}{2a}\pm\sqrt{\frac{b^2-4ac}{4a^2}}$