Unknown node type: matrix

Unknown node type: apply

Unknown node type: apply

Unknown node type: apply

$$\left(egin{array}{cccc} a_{11} & a_{12} & \dots & a_{1n} \ a_{21} & a_{22} & \dots & a_{2n} \ & & dots & & \ a_{m1} & a_{m2} & \dots & a_{mn} \end{array}
ight) \left(egin{array}{c} x_1 \ x_2 \ dots \ x_n \end{array}
ight) = \left(egin{array}{c} b_1 \ b_2 \ dots \ b_n \end{array}
ight)$$

$$\mathrm{f}\left(x
ight) = \sum_{j=0}^{\infty} \; rac{\mathrm{f}^{(j)}\left(heta
ight)}{j!} x^{j}$$

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

= $(x - 3)(x + 3)$

$$x^2-9=x^2-oxdots^2$$

$$\begin{array}{ll} ax^2+bx+c=0\\ ax^2+bx&=-c\\ x^2+\frac{b}{a}x&=\frac{-c}{a} \quad \hbox{Divide out leading coefficient.}\\ x^2+\frac{b}{a}x+\left(\frac{b}{2a}\right)^2=\frac{-c(4a)}{a(4a)}+\frac{b^2}{4a^2} \quad \hbox{Complete the square.}\\ \left(x+\frac{b}{2a}\right)\left(x+\frac{b}{2a}\right)=\frac{b^2-4ac}{4a^2} \quad \hbox{Discriminant revealed.}\\ \left(x+\frac{b}{2a}\right)^2=\frac{b^2-4ac}{4a^2}\\ x+\frac{b}{2a}=\sqrt{\frac{b^2-4ac}{4a^2}}\\ x+\frac{b}{2a}=\sqrt{\frac{b^2-4ac}{4a^2}}\\ x=\frac{-b}{2a}\pm\{C\}\sqrt{\frac{b^2-4ac}{4a^2}} \quad \hbox{There's the vertex formula.}\\ x=\frac{-b\pm\{C\}\sqrt{b^2-4ac}}{2a} \end{array}$$