Unknown node type: matrix

Unknown node type: apply

Unknown node type: apply

Unknown node type: apply

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

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

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

$$x^2-9=x^2-igsqcup^2$$



$$ax^2 + bx + c = 0$$

$$ax^2 + bx = -c$$

$$x^2 + \frac{b}{a}x = \frac{-c}{a}$$
 Divide out leading coefficient.

$$x^2+rac{b}{a}x+\left(rac{b}{2a}
ight)^2=rac{-c(4a)}{a(4a)}+rac{b^2}{4a^2}$$
 Complete the square.

$$\left(x+rac{b}{2a}
ight)\!\left(x+rac{b}{2a}
ight)=rac{b^2-4ac}{4a^2}$$
 Discriminant revealed.

$$\left(x+rac{b}{2a}
ight)^2=rac{b^2-4ac}{4a^2}$$

$$x+rac{b}{2a}=\sqrt{rac{b^2-4ac}{4a^2}}$$

$$x=rac{-b}{2a}\pm\{C\}\,\sqrt{rac{b^2-4ac}{4a^2}}$$
 There's the vertex formula.

$$x=rac{-b\pm\{C\}\sqrt{b^2-4ac}}{2a}$$