f
$$x = \sum_{j=0}^{\infty} \frac{f^j 0}{j!} x^j$$

$$\frac{\underline{x}^2 - 9}{\underline{x}^2 - 3^2}$$

$$\overline{x} - 3x + 3$$

$$\frac{\underline{x}^2}{x^2}$$
 - 9 $\frac{2}{x^2}$ -

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

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

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

$$x^2 + \frac{b}{a}x + \frac{b}{2a}^2 = \frac{-c (4a)}{a (4a)} + \frac{b^2}{4a^2} \quad \text{Complete the square.}$$

$$\left(x + \frac{b}{2a}\right) \left(x + \frac{b}{2a}\right) = \frac{b^2 - 4ac}{4a^2} \quad \text{Discriminant revealed.}$$

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

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

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

$$x = \frac{-b}{2a} \pm \left\{C\right\} \sqrt{\frac{b^2 - 4ac}{4a^2}} \quad \text{There's the vertex formula.}$$

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