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

$$4.56 + 4.56 + rac{4}{5} + 4 + 5i + 4.56e^{4.56i} + \pi + e + e + i + i + \gamma + \infty$$

$$17+29i\in\mathbb{C} \qquad \qquad \int\limits_0^1rac{\mathrm{dx}}{(a+1)\sqrt{x}}=\pi$$

$$\int_{\mathrm{E}} ig(lpha f + eta gig) \ \mathrm{d}\,\mu = lpha \ \int_{\mathrm{E}} \ f \ \mathrm{d}\,\mu + eta \ \int_{\mathrm{E}} \ g \ \mathrm{d}\,\mu$$

$$A = egin{pmatrix} 9 & 8 & 6 \ 1 & 2 & 7 \ 4 & 9 & 2 \ 6 & 0 & 5 \end{pmatrix} ext{ or } A = egin{bmatrix} 9 & 8 & 6 \ 1 & 2 & 7 \ 4 & 9 & 2 \ 6 & 0 & 5 \end{bmatrix}$$

$$egin{bmatrix} a_{11}-\lambda & \cdots & a_{1\mathrm{n}} \ draightharpoons & \ddots & draightharpoons \ a_{\mathrm{n}1} & \cdots & a_{\mathrm{n}\mathrm{n}}-\lambda \end{bmatrix} egin{bmatrix} x_1 \ draightharpoons \ x_{\mathrm{n}} \end{bmatrix} = 0$$

$$\sqrt{x-3}+\sqrt{3x}+\sqrt{rac{\sqrt{3x}}{x-3}}+irac{y}{\sqrt{2(r+x)}}$$

$$\sum_{n=0}^t f(2n) + \sum_{n=0}^t f(2n+1) = \sum_{n=0}^{2t+1} f(n)$$

$$\sqrt{x^2} = |x| = egin{cases} +\mathrm{x} & ext{, if } & x > 0 \ 0 & ext{, if } & x = 0 \ -\mathrm{x} & ext{, if } & x < 0 \end{cases}$$

$$f'(a) = \lim_{\mathrm{h} o 0} rac{f(a+h) - f(a)}{h}$$

$$1+\sum_{k=1}^{\infty}rac{q^{k+k^2}}{(1-q)(1-q^2)\dots(1-q^k)}=\prod_{j=0}^{\infty}rac{1}{(1-q^{5j+2})(1-q^{5j+3})} ext{, for } |q|<1$$