When \(a \ne 0\), there are two solutions to \(ax^2 + bx + c = 0\) and they are $x = -b \pm 6$ \(b^2-4ac \) \(2a^2 + bx + c = 0 \)

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

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

$$\int\limits_0^1 rac{\mathrm{dx}}{(a+1)\sqrt{x}} = \pi \qquad \qquad \int_\mathrm{E} ig(lpha f + eta gig) \,\mathrm{d}\,\mu = lpha \,\int_\mathrm{E} \,\,f\,\,\mathrm{d}\,\mu + eta\,\int_\mathrm{E} \,\,g\,\,\mathrm{d}\,\mu$$

$$\sqrt{x-3} + \sqrt{3x} + \sqrt{rac{\sqrt{3x}}{x-3}} + irac{y}{\sqrt{2(r+x)}} \sum_{n=0}^t f(2n) + \sum_{n=0}^t f(2n+1) = \sum_{n=0}^{2t+1} f(n)$$

$$\sqrt{x^2} = |x| = egin{cases} +\mathbf{x} & ext{, if} & x > 0 \ 0 & ext{, if} & x = 0 \ -\mathbf{x} & ext{, if} & x < 0 \end{cases} \hspace{0.5cm} H(j\omega) = egin{cases} x^{-j\omega\sigma_0} & ext{for} & |\omega| < \omega_\sigma \ 0 & ext{for} & |\omega| & \omega_\sigma \end{cases}$$

$$x=rac{-b\pm\sqrt{b^2-4ac}}{2a} \qquad \qquad f'(a)=\lim_{\mathrm{h} o 0}rac{f(a+h)-f(a)}{h}$$

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