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

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

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

$$x^2 + \frac{b}{a}x = \frac{-c}{a}$$
 Divide out leading coefficient.
$$x^2 + \frac{b}{a}x + \left(\frac{b}{2a}\right)^2 = \frac{-c(4a)}{a(4a)} + \frac{b^2}{4a^2}$$
 Complete the square.
$$\left(x + \frac{b}{2a}\right)\left(x + \frac{b}{2a}\right) = \frac{b^2 - 4ac}{4a^2}$$
 Discriminant revealed.
$$\left(x + \frac{b}{2a}\right)^2 = \frac{b^2 - 4ac}{4a^2}$$

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

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

$$4.56 + 4.56 + rac{4}{5} + 4 + 5i + 4.56e^{4.56i} + \pi + e + e + i + i + \gamma + \infty$$
 $17 + 29i \in \mathbb{C}$

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

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

$$\sqrt{x^2} = |x| = egin{cases} +\mathbf{x} & ext{, if} & x > 0 \ 0 & ext{, if} & x = 0 \ -\mathbf{x} & ext{, if} & x < 0 \end{cases} \hspace{1cm} H(j\omega) = egin{cases} x^{-j\omega\sigma_0} & ext{for} & |\omega| < \omega_\sigma \ 0 & ext{for} & |\omega| & \omega_\sigma \end{cases}$$

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

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