EGCI491 Computer Engineering Seminar
LaTeX Assignment II

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A quadratic equation is a second degree polynomial written as $ax^2 + bx + c = 0$. The generic function of the quadratic equation can be determined as:

$$f(x) = ax^2 + bx + c \tag{1}$$

whose discriminant $b^2 - 4ac$ is positive, with x representing an unknown, with a, b and c representing constants, and with a $\neq 0$, the quadratic formula is:

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

where the plus–minus symbol $\pm$ indicates that the quadratic equation has two solutions. When written separately, they become:

$$\begin{aligned} x &= \frac{-b + \sqrt{b^2 - 4ac}}{2a} \quad \textit{and} \\ x &= \frac{-b - \sqrt{b^2 - 4ac}}{2a} \end{aligned} \tag{3}$$