EGCI491 Computer Engineering Seminar LATEX Assignment II

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February 2, 2025

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:

$$x = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a} \tag{1}$$

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:

$$x_1 = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a} \tag{2}$$

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

$$x_1 = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a} \quad and$$

$$x_2 = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a}$$
(3)