Day 3 Notes: More complicated mathematical notation

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1 Introduction

So far we have looked at simple mathematical expressions. Consider. the standard quadratic function $f(x) = ax^2 + bx + c$ and solutions to the equation $f(x) = 0$. We often use the quadratic formula which gives solutions

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{21}.$$

Suppose that we were interested in expanding the binomial $(x + y)^2$, we might proceed as follows,