Homework 0 - Creating a Quarto document

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1) To solve the given equation, the quadratic formula can be used:

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

For part 1 we obtain (a = 1, b = -1, c = -2) x = -1, x = 2; for part 2 we obtain (a = 1, b = 2, c = 5) no solutions; for part 3 we obtain (a = 1, b = 3, c = 2) x = -2, x = -1.

- 2) Define the variables a, b, and c in the R environment (code in the Quarto document)
- 3) Then, we proceed to plot our equation when a=1, b=3, and c=2 (code in the Quarto document)

$$f(x)$$
 versus x for $x \in (-5, 5)$

$$a*x^2 + b*x + c$$

