

beginning

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).

```
a <- 1
b <- -1
c <- -2

discriminant <- b^2 - 4*a*c
if (discriminant >= 0) {
  solution1 <- (-b + sqrt(discriminant)) / (2*a)
  solution2 <- (-b - sqrt(discriminant)) / (2*a)
  cat("Real solutions are:", solution1, "and", solution2, "\n")
} else {
```

```
    cat("No real solutions.\n")
}
```

Real solutions are: 2 and -1

```
x <- seq(-5, 5, length = 100)

# Define the function f(x)
f_x <- a*x^2 + b*x + c

# Plot the graph
plot(x, f_x, type = "l", col = "blue", lwd = 2,
      xlab = "x", ylab = "f(x)",
      main = "Graph of f(x) = ax^2 + bx + c")
grid()
```

