biostat620_p1

Quarto

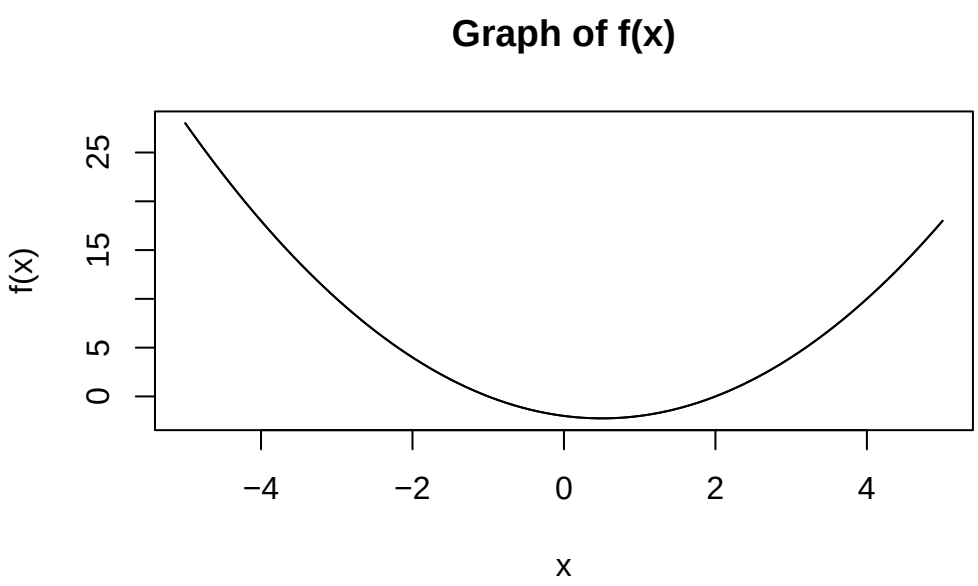
Running Code

```
a <- 1
b <- -1
c <- -2
discriminant <- b^2 - 4*a*c
if (discriminant < 0) {
  print("no real solutions")
} else {
  solutions <- c((-b + sqrt(discriminant)) / (2 * a), (-b - sqrt(discriminant)) / (2 * a))
  print(solutions)
}
```

```
[1]  2 -1
```

Drawing Graphics

```
x <- seq(-5, 5, length = 100)
y <- a * x^2 + b * x + c
plot(x, y, type = "l", main = "Graph of f(x)", xlab = "x", ylab = "f(x)")
lines(x, y)
```


Graph of f(x)
f(x)
0
5
15
25
−4
−2
0
2
4
x