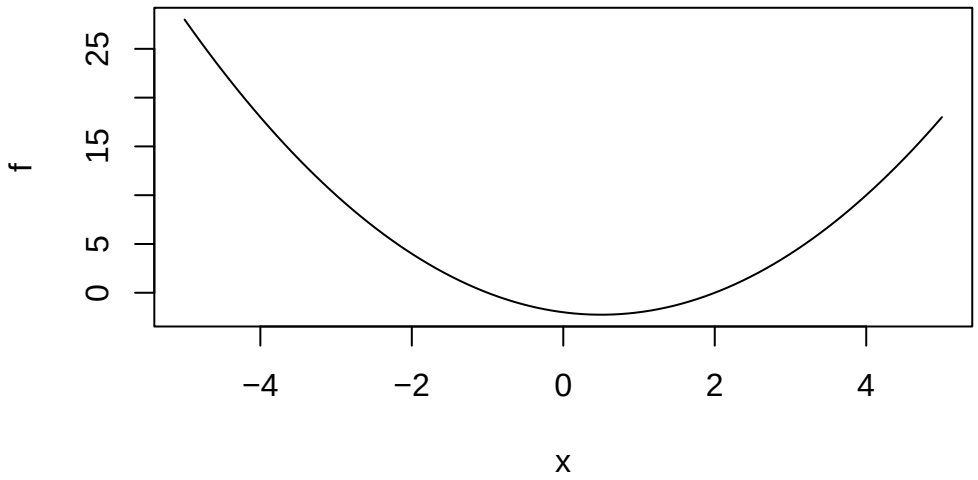
beginning

```
quadratic_function_solve <- function(a,b,c){
  delta <- b^2 - 4 * a * c
  if(delta > 0){
    root1 <- (-b + sqrt(delta)) / (2 * a)
    root2 <- (-b - sqrt(delta)) / (2 * a)
    return(c(root1,root2))
  }else if(delta == 0){
    return((-b) / (2 * a))
  }else{
    return("Complex Solution")
  }
}
a <- 1
b <- -1
c <- -2
result <- quadratic_function_solve(a,b,c)
result
```

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

```
x <- seq(-5, 5, length = 100)
f <- a * x^2 + b * x + c
a <- 1
b <- -1
c <- -2
plot(x, f, type="l")
lines(x)
```


f
0
5
15
25
−4
−2
0
2
4
x