

Lab 3 – Exercise 4

How Many Real Roots?

GIVENS : *(none)*

RESULT : *(none)*

INTERMEDIATES : a, b, c *(the coefficients of $ax^2+bx+c = 0$)*
 numberRoots *(the number of real roots for the quadratic equation)*

HEADER : main()

BODY :

```

printLine("Give the values of the coefficients a, b, and c.")
a ← readReal()
b ← readReal()
c ← readReal()
numberRoots ← howManyRoots(a, b, c)
printLine("The number of real roots for the equation is ", numberRoots)
  
```

GIVENS : a, b, c *(coefficients of the quadratic equation)*

RESULTS : nbrR *(number of real roots in the equation)*

INTERMEDIATE : discriminant *(calculated with the coefficients)*

HEADER : nbrR ← howManyRoots(a, b, c)

BODY :

