See below the results of testing calculator R functions using script RCalculatorTest

> tangent(45)

[1] 1

> tangent(90)

[1] "Cannot get Tan of 90 or multiples of 90 that are not multiples of 180"

> tangent(180)

[1] 0

> add(1,3)

[1] 4

> add(-4,6)

[1] 2

> add(-6,-6)

[1] -12

> subtract(1,3)

[1] -2

> subtract(-4,-6)

[1] 2

> subtract(-5,8)

[1] -13

> multiply(-3,0)

[1] 0

> multiply(6,4)

[1] 24

> multiply(-8,-2)

[1] 16

> divide(2,3)

[1] 0.6666667

> divide(1,0)

[1] "Cannot Divide By zero"

> divide(10,-2)

[1] -5

> squareroot(100)

[1] 10

> squareroot(-36)

[1] "Cannot get square root of negative number"

> squareroot(0)

[1] 0

> square(-3)

[1] 9

> square(2.4)

[1] 5.76

> square(5)

[1] 25

> sine(30)

[1] 0.5

> sine(390)

[1] 0.5

> sine(-45)

[1] -0.7071068

> cosine(0)

[1] 1

> cosine(45)

[1] 0.7071068

> cosine(180)

[1] -1

> getfactorial(4)

[1] 24

> getfactorial(15)

[1] 1.307674e+12

> getfactorial(-3)

[1] "Sorry, factorial does not exist for negative numbers"

> getfactorial(2.2)

[1] "Input must be an integer"