

Package: numericalecon (via r-universe)

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Title Numerical Methods for Economists

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Description This package includes tools and functions used in the numerical course offered at the University of Waterloo

Depends R (>= 2.10.0)

URL <https://codeberg.org/pchausse/numericalcon>,
<https://pchausse.codeberg.page/NumericalMethods>,
<https://pchausse.r-universe.dev/numericalcon>

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addQuadra	<i>Sum of two polynomials</i>
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Description

It sums two objects of class Quadra

Usage

```
addQuadra(Q1,Q2)
Q1%+%Q2
```

Arguments

Q1	An object of class Quadra.
Q2	An object of class Quadra.

Examples

```
P1 <- Quadra(1,2,3)
P2 <- Quadra(.1,-2,1.3)
P1
```

plot	<i>Plot second order polynomial</i>
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Description

It prints the polynomial and shows the min or max and the zeros.

Usage

```
## S3 method for class 'Quadra'
plot(x,from=NULL,to=NULL, ...)
```

Arguments

x	Object of class Quadra.
from	min(x) on the plot
to	max(x) on the plot
...	Argument for other type of objects

Examples

```
P1 <- Quadra(1,2,3)
plot(P1)
```

print	<i>Print methods for Quadra</i>
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Description

Print results of different methods applied to Quadra Objects

Usage

```
## S3 method for class 'Quadra'
print(x, ...)
## S3 method for class 'zeros'
print(x, ...)
## S3 method for class 'solveP.Quadra'
print(x, ...)
```

Arguments

x	Onject of class Quadra.
...	Argument for other type of objects

Examples

```
P1 <- Quadra(1,2,3)
print(P1)
print(zeros(P1))
print(solveP(P1))
```

Quadra	<i>Object of class Quadra</i>
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Description

Create an object of class Quadra

Usage

```
Quadra(a,b,c)
```

Arguments

a	Coefficient A (see details)
b	Coefficient B (see details)
c	Coefficient C (see details)

Details

The polynomial is $f(x) = Ax^2 + Bx + C$.

Examples

```
P1 <- Quadra(1,2,3)
P1
```

solveP	<i>Roots of a polynomial</i>
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Description

Computes the roots of a second order polynomial

Usage

```
## S3 method for class 'Quadra'
solveP(obj, ...)
```

Arguments

obj	An object of class Quadra.
...	Other arguments when solve is applied to another class object

Examples

```
P1 <- Quadra(1,2,3)
solveP(P1)
```

summary	<i>Summary for objects of class Quadra</i>
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Description

Returns characteristics of the polynomial

Usage

```
## S3 method for class 'Quadra'
summary(object, ...)
```

Arguments

object	An object of class Quadra
...	Argument for other type of objects

Examples

```
P1 <- Quadra(1,2,3)
summary(P1)
```

zeros

Zeros of a second order polynomial

Description

Computes the zeros of polynomials of class Quadra

Usage

```
## S3 method for class 'Quadra'
zeros(object, ...)
```

Arguments

object	An object os class Quadra
...	Other arguments when zeros is applied to an other class object

Examples

```
P1 <- Quadra(1,2,3)
zeros(P1)
```

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