20181013d inverse and composite function

cheungngo

October 13, 2018

### Inverse function

Suppose f(x) = x/(1+x) What would be the inverse function

yacas('Solve(x/(1+x)==y,x)')

## expression(list(x == y/(1 - y)))

### 

### Composite functions in mosaic

Suppose f(x) = x+1, g(x) = x^4;  
Now to find the composite function g(f(x))

library(mosaic)

f = makeFun(x+1~x)  
g = makeFun(x^4~x)  
x = Sym('x')  
g(x=x+1) # g(f(x))

## expression((x + 1)^4)

f(x=x^4) # f(g(x))

## expression(x^4 + 1)