

Nye smarte plotfunktioner

"shadebetween"

God til at farvelægge et område mellem 2 funktioner.

Funktionen ligger i plots-pakken.

Eksempler:

restart

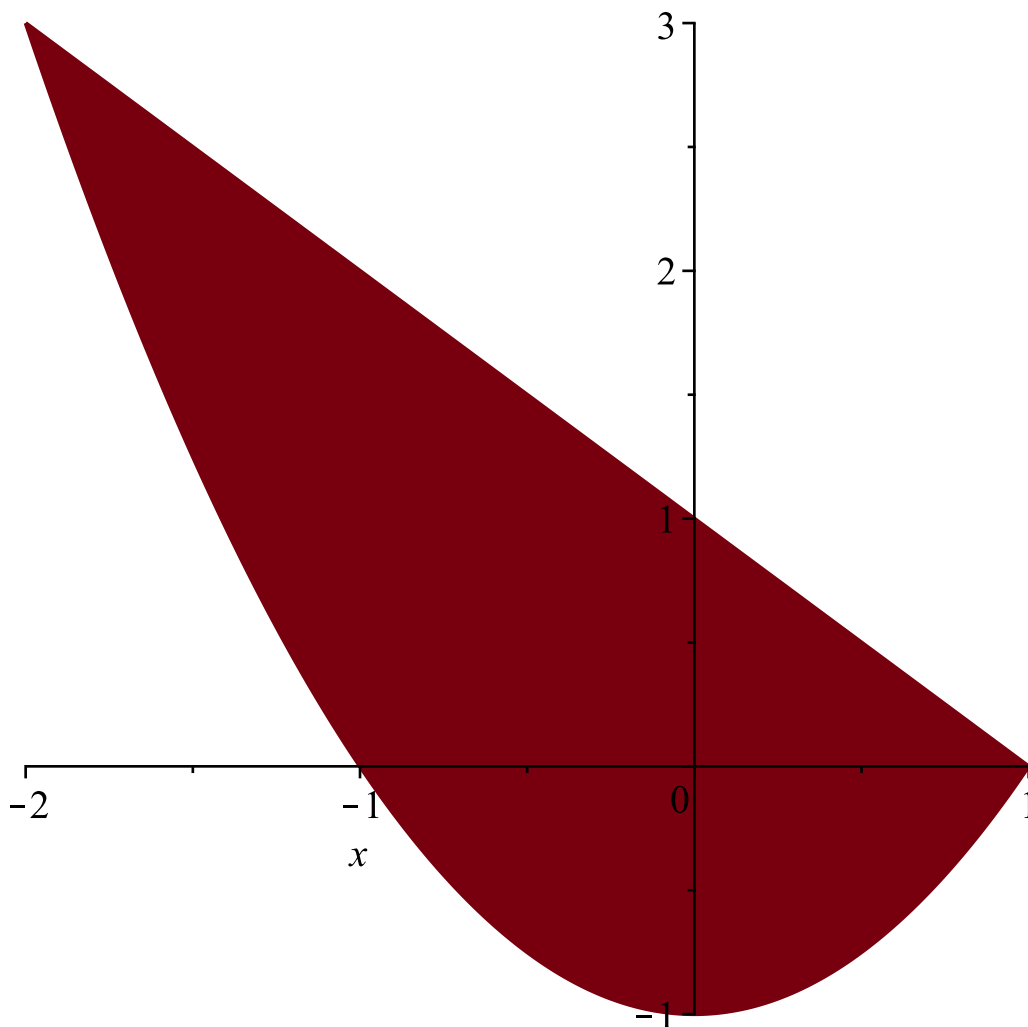
with(plots) :

$f(x) := x^2 - 1 :$

$g(x) := -x + 1 :$

$solve(f(x) = g(x), x) = 1, -2$

$shadebetween(f(x), g(x), x = -2 .. 1)$

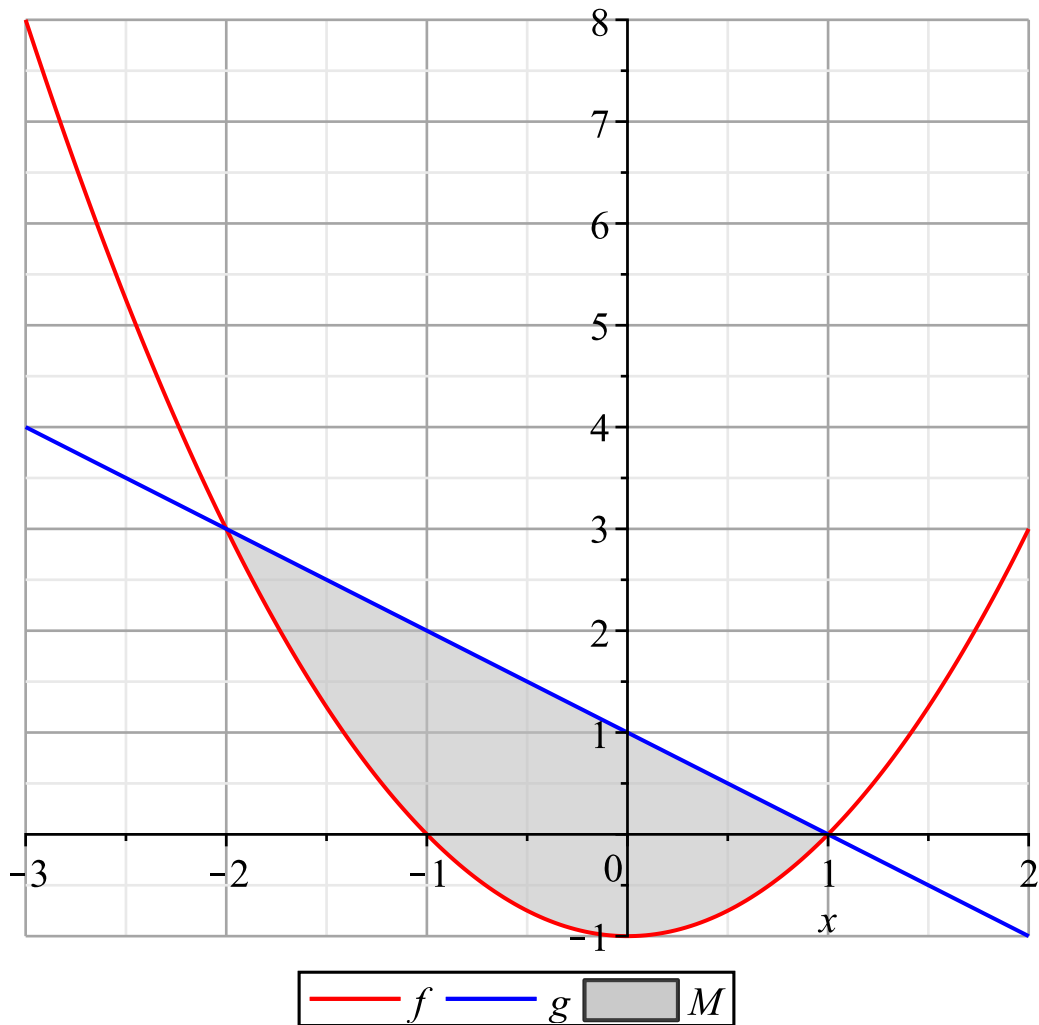


Bedre tegning:

$F := plot(f(x), x = -3 .. 2, color = red, legend = f) :$

$G := plot(g(x), x = -3 .. 2, color = blue, legend = g) :$

$S := shadebetween(f(x), g(x), x = -2 .. 1, showboundary = false, color = grey, legend = M) :$
 $display(F, G, S, gridlines)$



"inequal"

God til at tegne uligheder.

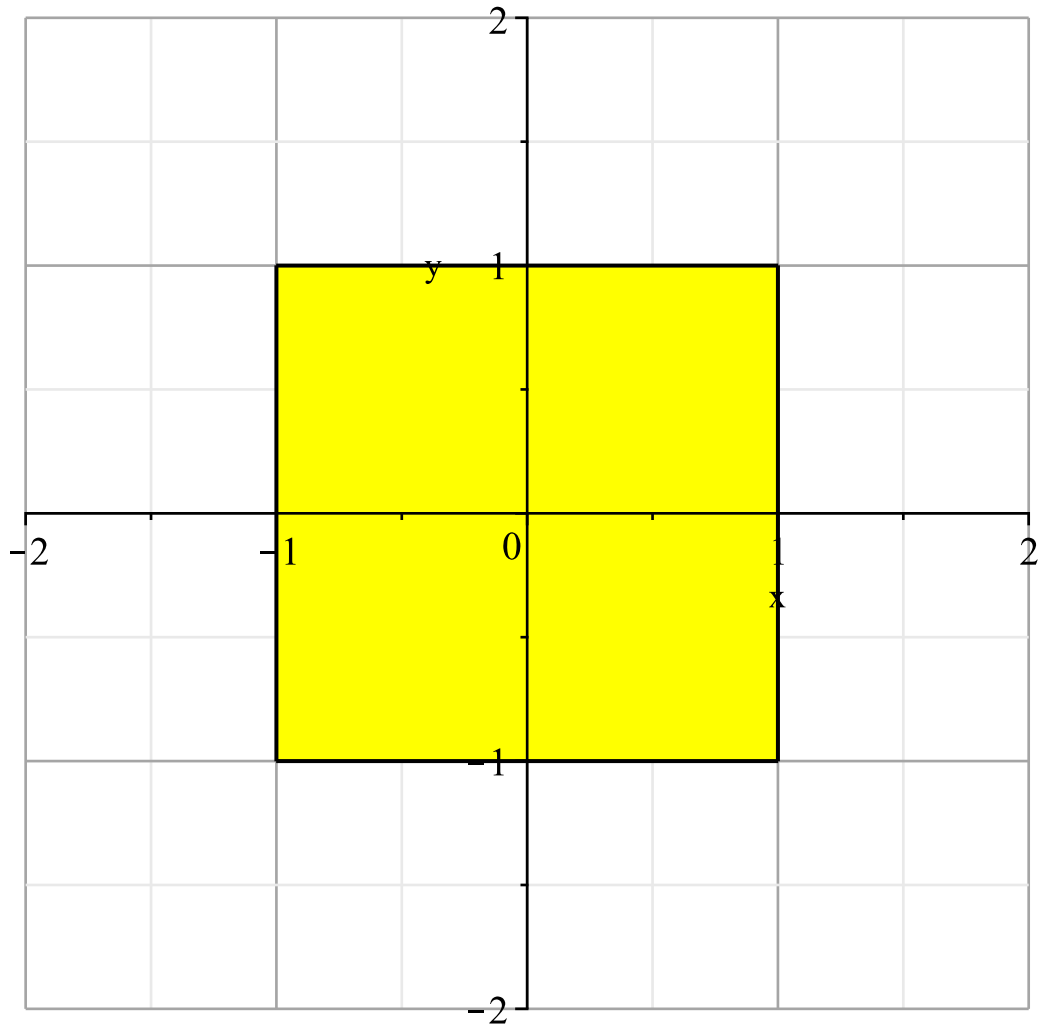
Det kan udnyttes, når man vil illustrere en definitions­mængde.

Eksempler:

restart

with(plots) :

```
inequal({ -1 ≤ x ≤ 1, -1 ≤ y ≤ 1 }, x=-2..2, y=-2..2, gridlines, color=yellow, transparency=0.5)
```



`inequal({ (x - 1)2 + y2 ≤ 22 }, x=-3 ..4, y=-3 ..4, gridlines, color = green, transparency = 0.5)`

