fmal v5

hir12

September 2022

1 RealPowRecursive

2 transpose-list

```
;; Notkun: (transpose-list z)
;; Fyrir: z er listi jafnlangra lista,
;; z=((x11 \ x12 \ \dots \ x1N)
;; (x21 \ x22 \ \dots \ x2N)
;; (x31 \ x32 \dots x3N)
;; .
;; .
;; .
;; (xM1 xM2 \dots xMN)
;; Gildi: Listinn sem er byltingin
;; (transpose) af z, p.e.
;; ((x11 \ x21 \ \dots \ xM1)
;; (x12 \ x22 \ \dots \ xM2)
;; (x13 \ x23 \ \dots \ xM3)
;; .
;; .
```

```
;; .
;; (x1N x2N ... xMN)
;; )

(define (transpose-list z)
    (if(null? (car z))
         '()
         (cons (map car z) (transpose-list (map cdr z)))
)
)
(transpose-list'((1 2 3)(4 5 6)(7 8 9)))

;; líka hægt að gera eftirfarandi:
;; (define (transpose-list z)
;; (apply map list z)
;; )
:)
```