21-1/ macros-by-example
(dofine-syntax-rules (etx
[(_ () body) <- pattern
[(_ () body) = pattern (begin body) ] = template
[(- ([x xe] more) body)
(1) (x) (let+ (more) body 1) xe)])
(le++ ([x 5] [y (+ x 6)]) (+ xy))
macro-env: id > macro-def = list (19+ + kg)
macro-apply: macro-def x macro-invocation
1. for each 19th & template
a. does the invoke mutchake pathem?
match: Mtx invite [ let*, y-> x, xe-> 5,
=> #f or enve more' => ([y (+x6)]), body=> (+xy)]
[id-level] b. transcribe: templale x match-env=stx
(() (x) (let ([y (+x6)]) (+ x y)) S)
c. done

21-21 (match e [pat body])
•
(match tens x
[10] 5]
[(cons a b) (+ a b)])
=7
(cond
[(emp4? x) S]
[(cons? x)
(let ([a (fint x)] [b (nst x)])
(+ a b))]
[else (error "no case for: ne" x)]]
[(cons A (cons B (cons ( '()))) Y]
[(13+ A B C) X]
·
'(123) = (13+123)
=7 (quote (1 2 3))

(dsrs quote [(a ...) (13+ (grote a) ...)] [NUMBER n n] [() emp4]) O(1 2 (\*x y)) => (13+ 1 2 (+xy1) not => (13+ 12 (113+ 1x 1x 1y) \*(1 2 (\* \* y)) (dors quasiquote (ungrote) [(unquate a) a]) match ['(1 2 3) -> [(and (1st? x) (= 3 (langth x)) [\((1 2 /x)) -(= 1 (|s+x)) (= 2 (snd x))(let ((x (3nd x))) (=3 (third x))