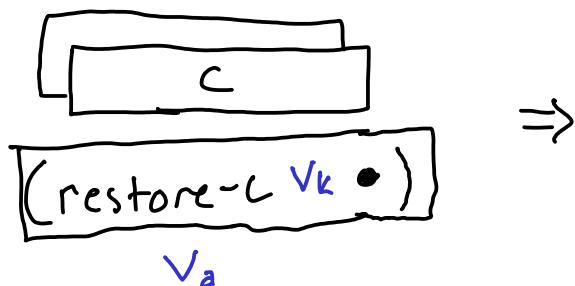
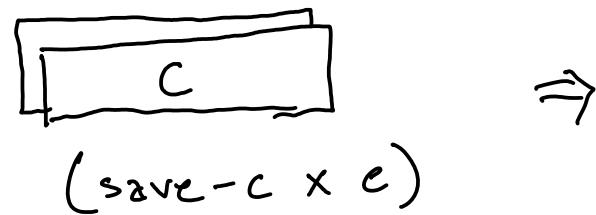


( restore - ( e e )



$(\text{try } e_b \times e_c) \rightsquigarrow (\text{save-}c \text{ outer}$   
 $\quad (\text{let } (x \ (\text{save-}c \text{ throw-here}$   
 $\quad \quad (\text{restore-}c \text{ outer } e_b)))$   
 $\quad (\text{restore-}c \text{ outer } e_c)))$

$(\text{throw } e) \rightsquigarrow (\text{restore-}c \text{ throw-here } e)$

if  $e_b$  throws,  
this never runs

 = outer

$(\text{try } e_b \times e_c)$

$(+ \top$   
 $\quad (- \text{try} (+ \text{I} (\text{throw} \top)) \quad n \quad (+ \text{3} \quad n))$   
 $)$   
 $(+ \top$   
 $\quad (\text{save-c} \quad \text{outer}$

$(\text{let} \quad (n \quad (\text{save-c} \quad \text{throw} \quad (\text{restore outer} \quad (+ \text{I} \quad (\text{restore-c} \quad \text{throw} \quad \top))))))$   
 $\quad (\text{restore outer} \quad (+ \text{3} \quad n))))$

$(+ \top \bullet)$

$\Rightarrow$

$\boxed{\text{outer} = v_{\text{out}}}$

$(\text{Save-c} \quad \text{outer} \dots)$

$v_{\text{out}} = \text{kont} (+ \top \bullet)$

$\Rightarrow$

$\boxed{\text{outer} = v_{\text{out}}}$

$\boxed{(\text{let} \quad (n \bullet) \dots)}$

$(\text{save-c} \quad \text{throw} \dots)$

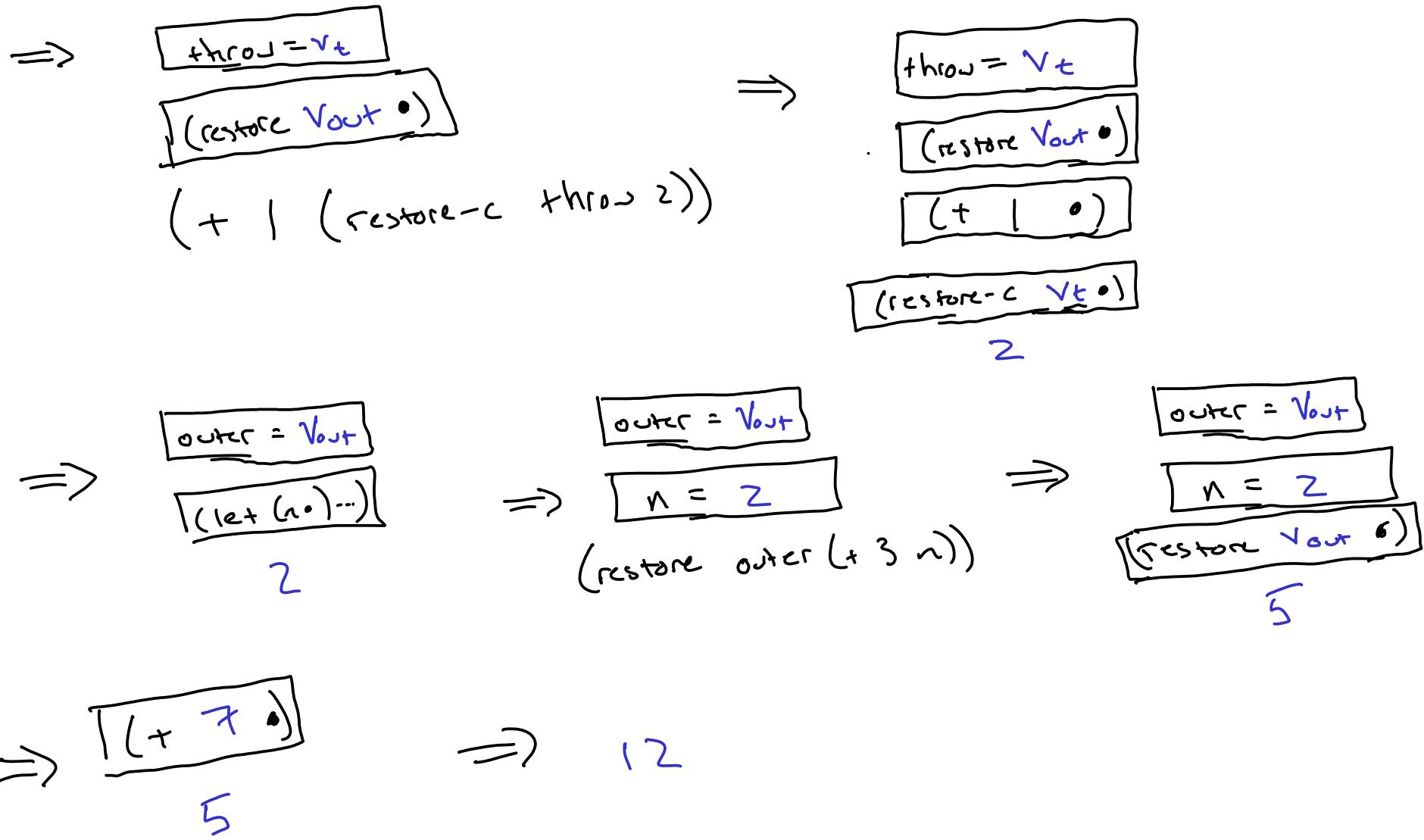
$(\text{let} \quad (n \dots) \dots)$

$\Rightarrow$

$\boxed{\text{throw} = v_t}$

$(\text{restore outer} \dots)$

$v_t = \text{kont} (\boxed{\begin{array}{l} \text{outer} = v_{\text{out}} \\ (\text{let} \quad (n \bullet) \dots) \end{array}})$



~~(+ 7 (+ try (+ 2 3) n (+ 1 n)))~~

(+ 7 (save-c outer  
      (let (n (save-c throw (restore-c outer (+ 2 3)))))  
         (+ 1 n))))

(+ 7 -)

Outer =  $V_{out}$

$$V_{0,2x} = \text{Kont} \left( \begin{array}{c} (+\text{?}) \\ (\bullet) \end{array} \right)$$

(let ((n (some-  
c throw ...)))  
(+ 1 n))

$$\Rightarrow \boxed{\text{Outer} = \text{Vout}} \\ \boxed{(\text{let } (\text{n } \cdot) \dots)}$$

2

$$\boxed{\text{throw} = \underline{\sqrt{t}}}$$

$$v_t = k_{\text{out}} + \left( \begin{array}{l} \text{outer} = v_{\text{out}} \\ [( \text{let } (n \circ) \dots )] \end{array} \right)$$

(restore-c outer (+ 2 3)))

(Save -c throw ...)

A hand-drawn diagram illustrating a stack frame. At the top, a box contains the text "throw = vt". An arrow points from this box to a larger box below it. The larger box contains the text "restore - c vout e)". Below the large box is the number "5".

$\Rightarrow$   
Replace whole context w/ $V_{out}$ 's

(+ 7 •)

$\Rightarrow$  12

```
fun save-c(f): call-cc(f) end
fun restore-c(k, v): k(v) end

fun find-in-list(l :: List, n :: Number):
    save-c(lam(return-here):
        for each(elt from l):
            print(elt)
            when elt == n:
                restore-c(return-here, true)
            end
        end
        restore-c(return-here, false)
    end)
end
```

