ISWIM- ; F you see what I mean 451 variables M, N, L, K = X 1 (1 X, M) functions

[(MN) application (function call) b constants from set B (on M, ... Mn) primitive fun calls of arity n from some set O B= Etne, false] U & To In & Z 3 where "N' is O, = 8 not, negate 3 the stx for an Integer Oz = {abd, sub, mul, div, expt } B = 00 FV (free variables): M => EX ... 3 FV(X) = 2X3FV(MN) = FV(M) U FV(N) FV (b) = Ø $FV(o^n M_1 \dots M_n) = U + V(M_i)$ FV () X, M) = FV(M) - EX3 x.x & = bi f(x) = 42 * x + (7+8) = 42 * x + 15 Substitution N = 42 * 17 + (7+8) $M[X \leftarrow N]$ $g(x) = \{ f(x) = 8 + x \}$ f(x+z) 3 X [X -N] = N Y [X =N] = Y (MN)[X < L] = (M[X < L] M[X < L]) (on Mi... Mn) [X < N] = (on M, [X < N] ... Mn [X < N]) b [X=N] = b SHADOWING $(\lambda X, m) [X \leftarrow N] = (\lambda X, m) NOT (\lambda X, m[X \leftarrow N])$ (x x, m) [4 < N] = [xx, m[4 < N]) 175 W[X = Z][Y = N) Z & FV (M)

```
4-2 Function arguments can only be values
     V_1 U_1 W = b
(\lambda X_1 M)
                                               f(x)=42*x+7
                                               F(3+4)=
    By (beta v) : Rel (M, M)
                                             myth 42 + (3+4) +7
                                            ISWIM ((3+4) = E(7)
        ((\lambda k, m) \vee) \beta_{v} m[x \leftarrow v]
                                             - 42*7+7
             : Rel (M, M) = Set (M, M)
     (on b, ... bn) A V
                                           = 8 (M, N)
          if S(o^n, b_1, \ldots, b_n) = V
     S(inc, [n]) = [n+1]
     S(+, [n], [m]) = [n+m]$
      (come 5 6), 11) E A
    S (iszero, there) = 1 x, 1y, x
    8 (iszero, False) = lx,ly, y
     (ifOLMN) = (((iszeroL)(\lambda x, M))(\lambda x, N))
        2 BV V A
   ->v (compatible closure)
   ->> refl-trans closure of >>> v
    =v sym closure of >>>v
 & (remaine vars) (1x,x) d (1y,y) (NOT in ISWIM)
n (eta) \qquad (1x. \not m x) n m
                    if X & FV(M)
```

 $= \lambda x_1 (([\lambda \overline{z}_1 \lambda x_1 L] \vee) x)$ $= \lambda x_1 L [\overline{z}_{e} v] [X \leftarrow x]$ $= \lambda x_1 L [\overline{z}_{e} v]$

4-4	IC M=V, XX,N,				
	$((\forall X'V) \dot{W})$	=v N [$X \leftarrow M$	(β)	
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