(1)

Pour $\{A2^{\circ}\} = \{A0\} \uparrow \{A1\}$

```
XEXPS2: MOVE  (A0),D0          CMP #$1000,D1      x° = 1
        MOVE  (A1),D1          BEQ XPOSEUN
        CMP   #$4001,D0
        BEQ   XPOSEUN          → 1^x = 1
        CMP   #$4000,D0
        BNE   KB46                          signe de M > 0 ?
        CMP   #$4000,D1
        BEQ   XPOSEUN          → 0° = 1
        BTST  #15,D1
        BEQ   XPOSEZ           → 0^x = 0   x>0
KB44:   MOVE  #4,D0            ↓ err exponentielle
        BRA   RER

KB46:   BTST  #13,D1
        BNE   KB44             → si {A1} = P/q
        CMP   #$C001,D0
        BNE   KB50
        BSR   SLN#1                    (-)^x = { 1  x pair
        BTST  #0,-1(A1,D1.W)   ← BSR XPOSEUN   { -1  x i-pair

        BEQ   KB49             → pair
        MOVE  #$C001,(A2)
        BRA

KB48:   MOVE  #$4001,(A2)
KB49:   RTS
KB50:   MOVE  D1,-(SP)         ← conserve le signe
        BCLR  #15,D1           ← EXT.L D1
        BCLR  #14,D1
        BNE   KB52
        CMP   #2,D1
        BNE   KB44             BNE KB44

        MOVE  2(A1),D1
```

(1)

$\{A0\}^{\alpha}$ $|\alpha| = d1.w > 0$
le signe de $\alpha$ est sur le pile

```
KB52 : BCLR  #5,(A0)          ⊗
       BEQ   KB572
       MOVEM.L D1/A0/A6,-(SP)
       BSR   XEXPD2N          n^d1
       MOVEM.L (SP)+, D1/A0
       BSR   SLNH0
       BSET  #5,(A0)           ⊗
       ADD   D0,A0
       BSR   XEXPD2N          d^d1
       MOVE.L (SP)+, A2
       BSET  #5,(A2)           ⊗
KB570 : MOVE  (SP)+,D0        (α)
       BPL   KB49             → rts
       inverse
       MOVE.L A2,-(SP)
       MOVE.L A2,A0
       BSR   XINVS2
       MOVE.L (SP)+,A0
       BRA   XEFFC

KB572 : BSR   XEXPD2N
        BRA   KB570
```