



```
Pam ( d ) =
         # (we L(d) | 1w1 7, 101)
            ] (x,y,z e & w = xoyoz 1 |y| > 0
                              1xy 1 < 1610
                 xyizeL(d)
              Vi∈N,
        P (A) = "Regular Pumping Property" RPP
1
         FEN.
           A(m+ H | Im| 3 b
          ] (x,y,ze & \ w=xyz \ lyl >0 \ lxyl < P)
            YieN.
               xy'zeA
                                       TYP(X) GOT FOX)
         7 P (B) ==
                                       TAP(X) CO YTP(X)
2
          YPEN.
          3 (w + B | IVI Z P)
           Y (x,y, Z ∈ E* | w=xyz 1 |y|70 1 |xy| < p)
             Mai E
                                        BE REC
             XY'Z&B
                                             => REC + ALL
         given: p choose: w = of 1°
         given: x_1y_1 \neq 0^p 1^p = xy \neq |y| \geq 0 |xy| < p

x = 0^a y = 0^b = 0^c 1^p = 0 > 0 = 0 at b > 0 at b < p
                                            a+b+c=p
           xy'z = 00000 1 = 0 a+bi+c 1 = B
            iff \quad a+b+c = p
a+b+c = a+b+c \quad 27 \quad b=b; \quad 27 \quad i=1
         choose! i=0
```

