3e. 12.75 → octal

12 = 1100

0,75 × 2 = 1,5

0,5 × 2 = 1,0

01100.110

1 4 . 6

→ **3f.** 125,32 → hexadecimal

125 | 2
05 62 | 2
1 0 31 | 2
1 15 | 2
1 7 | 2
1 3 | 2
1 1

0,32 × 2 = 0,64

0,64 × 2 = 1,28

0,28 × 2 = 0,56

0,56 × 2 = 1,12

0,12 × 2 = 0,24

0,24 × 2 = 0,48

0,48 × 2 = 0,96

0,96 × 2 = 1,92

01111101,01010001

7 D . 5 1

→ **6c.** $F = x + yz$

$F = (x + y)(x + z)$

→ **6d.** $F = (A + B + C)(D + A) + BC + AC =$

$= (A + B + C)(D + A) + C(B + A) = ((A + B + C)(D + A) + C) \cdot$

$\cdot ((A + B + C)(D + A) + (B + A)) = (A + B + C) \cdot (D + A + C) \cdot (A + B + C)(A + B + D)$

$$F = \cancel{A}D + BD + CD + A + \cancel{B}\cancel{A} + \cancel{C}A + BC + \cancel{A}C =$$

$$= A + CD + BC + BD$$

7e $F = [(A\bar{B})A][\overline{(A\bar{B})}B] = 0$

module func(input A, input B, output f)

assign f = 0;

end module

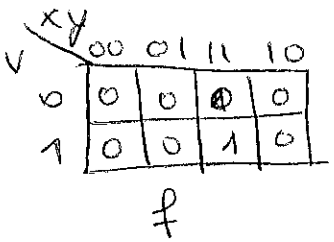
→ **7f** $F = XY(V + W)[(X+Y)V]$

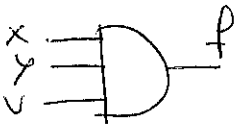
$$F = (XYV + XYW)(XV + YV) =$$

$$= XYV + XYV + XYVW + XYVW =$$

$$= XYV$$

→





module func (input x, input y, input v)

assign f = x & y & v;

end module