1=
A9B9C
a=10*(16^4)=655360
9=9*(16^3)=36864
b=11*(16^2)=2816
9=9*(16^1)=1296
c=12

sum
695196

2
pete 4c=64+12=76
jake=5a=80+10=90
dif=14

3
0110 1110 0111 0011
0000 1110 0110 1010
0111 1100 1101 1101
4
face2face15bacbae
xxxxxxxxf28a37774=1127466268F28A37774
122149215d3e
1222149215D3E5E4322

e15bacbae
f28a37774
1D3E5E4322

5=
1) X∗Y∗Z+~(X→Y)+X∗~Z ↔ ~(~X∗Y+~(X+Y)), where X=0, Y=1, Z=0
0∗1∗0+~(0→1)+0∗1 ↔ ~(1∗1+0)
0+~(0→1)+0 ↔ 0
0+~(1)+0 ↔ 0
0 ↔ 0
1
2) (~A ⊕ B∗C)∗~(A+C) + B∗C, where A=1, B=0, C=0
(0 ⊕ 0)∗~(1+0) + 0∗0
(0 ⊕ 0)∗0 + 0
0∗0

0

3) (P∗Q+P ↔ (P+1)∗P) → P∗Q+~P∗~Q∗R+~(P+~Q+~R), where P=0, Q=1, R=1
(0∗1+0 ↔ (1)∗0) → 0∗1+1∗0∗1+~(0+0+0)
(1 ↔ 0) → 0∗1+1∗0∗1+1
0 → 0+0+1
0 → 1
1