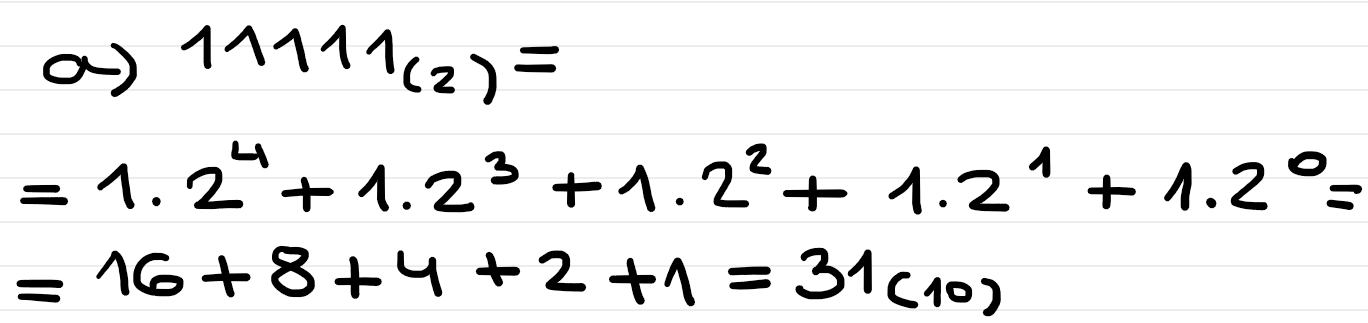
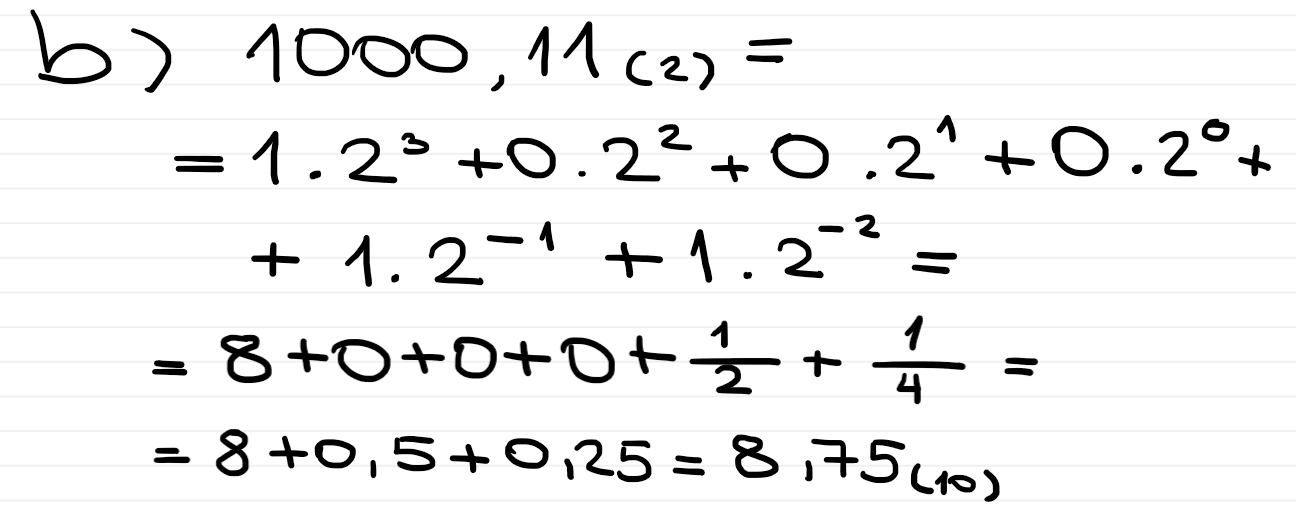
# Упражнение: Основни математически концепции - Решения

## Преобразуване от двоична в десетична бройна система

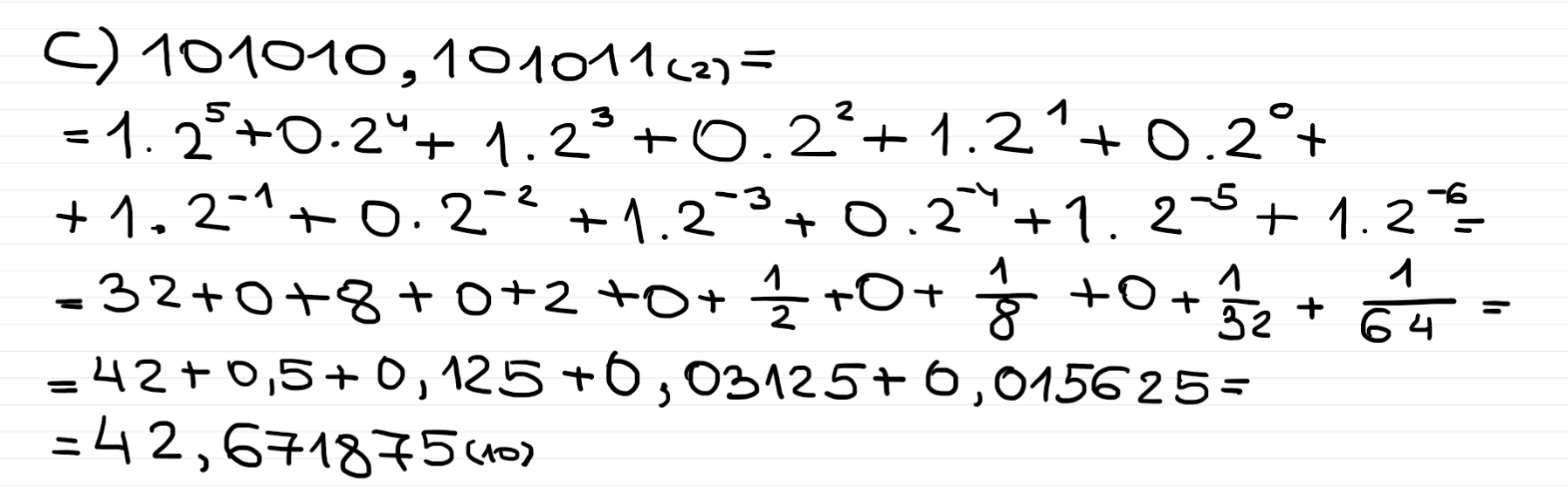
1. 11111(2) = 31(10)

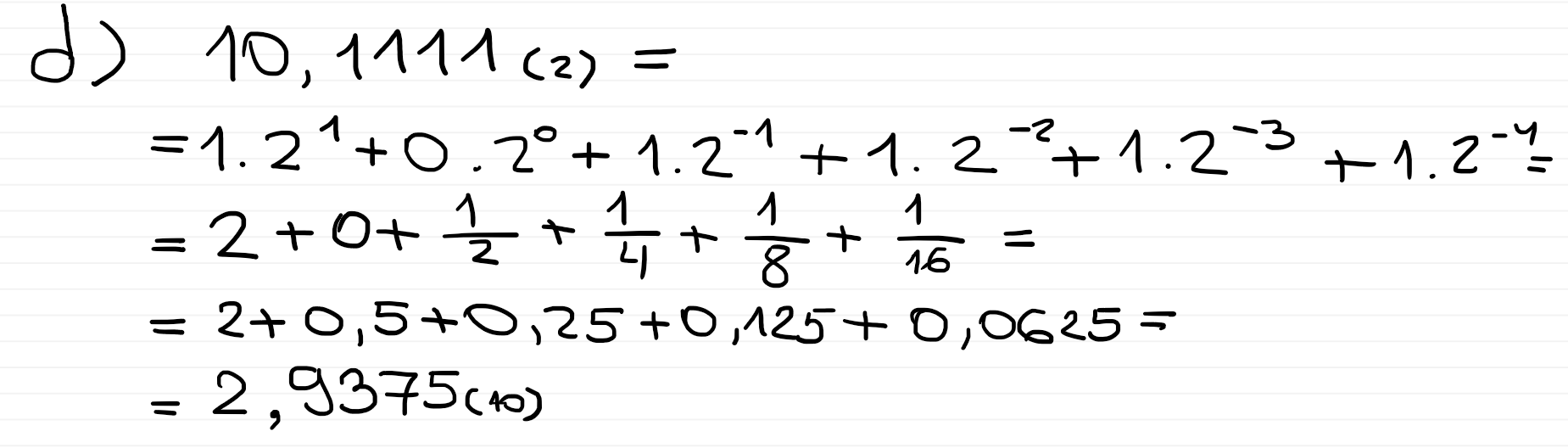


1. 1000,011 (2) = 8,75(10)



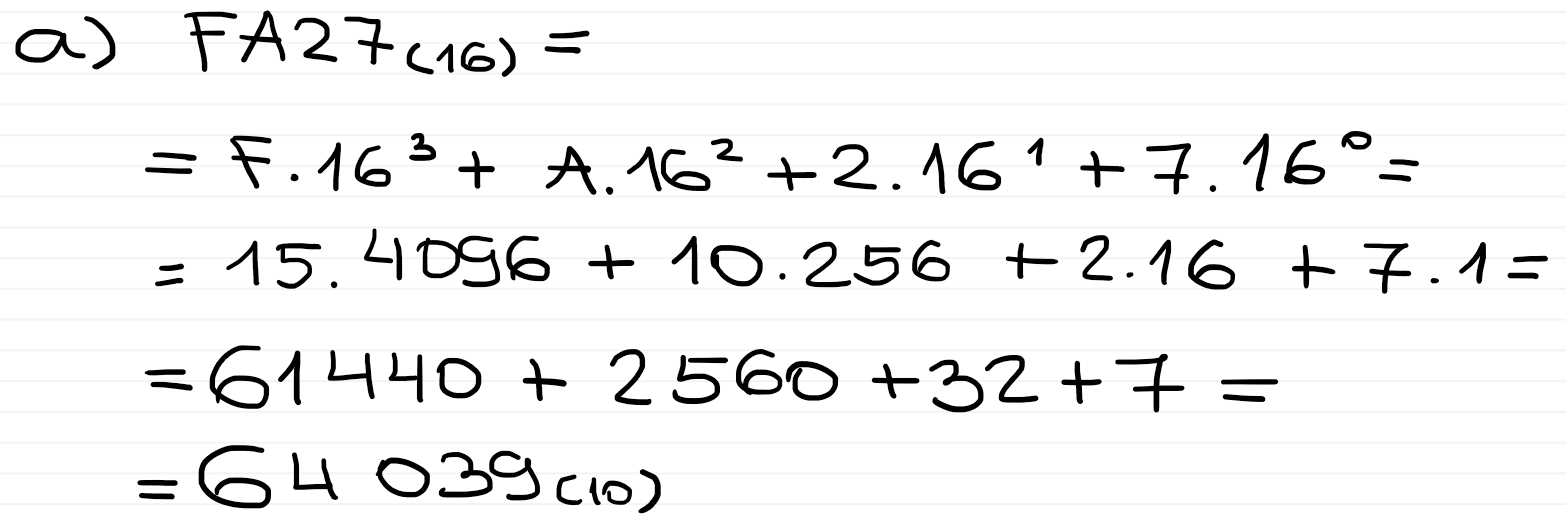
1. 101010,101011(2) = 42,671875(10)



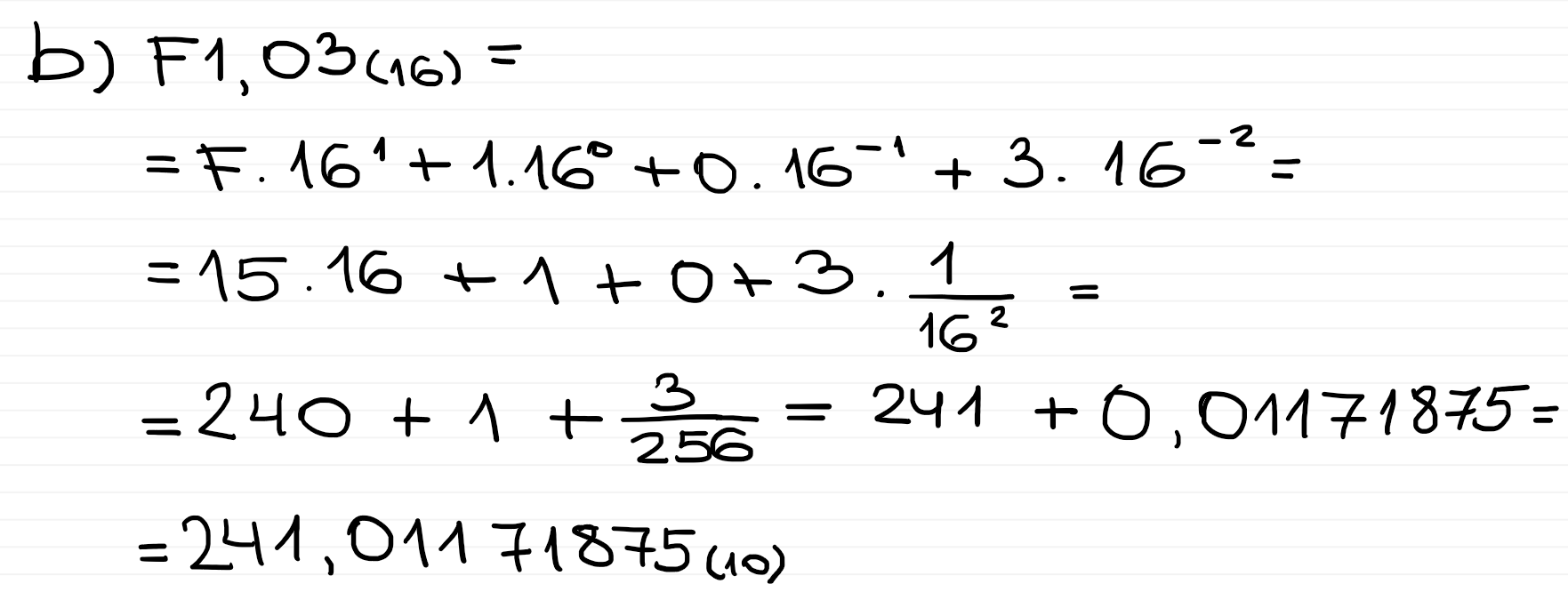
1. 10,1111 (2) = 2,9375(10) 

## Преобразуване от шестнадесетична в десетична бройна система

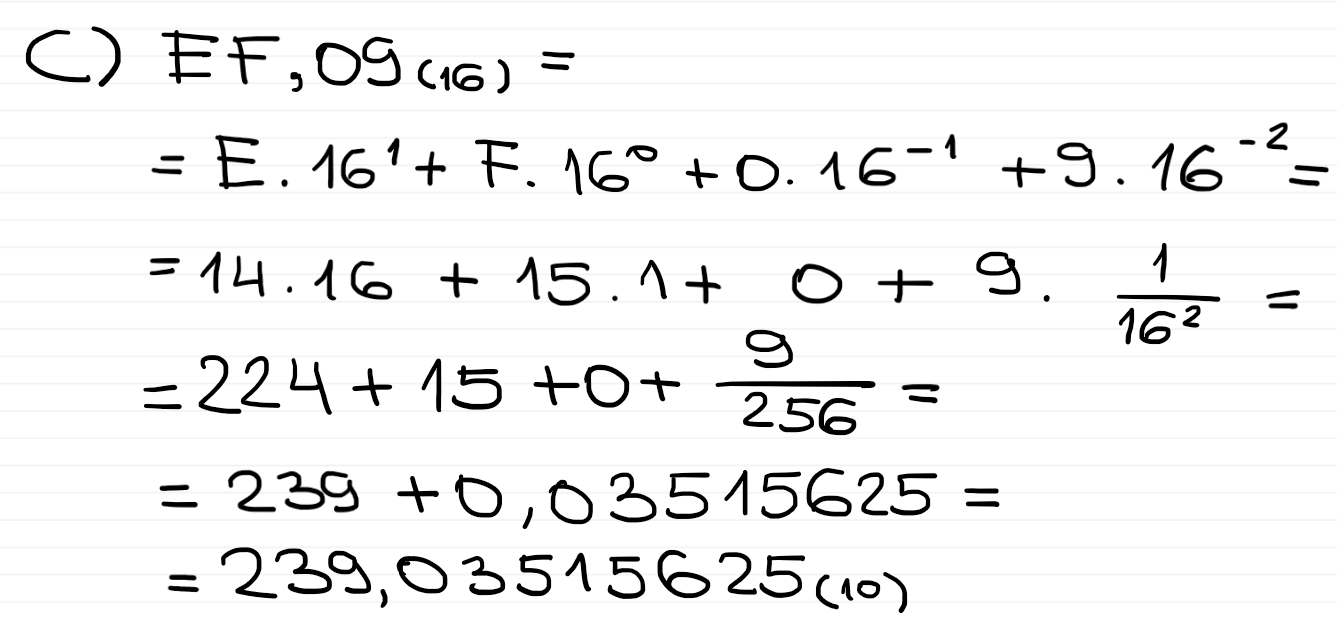
1. F2A7(16) = 64039(10)



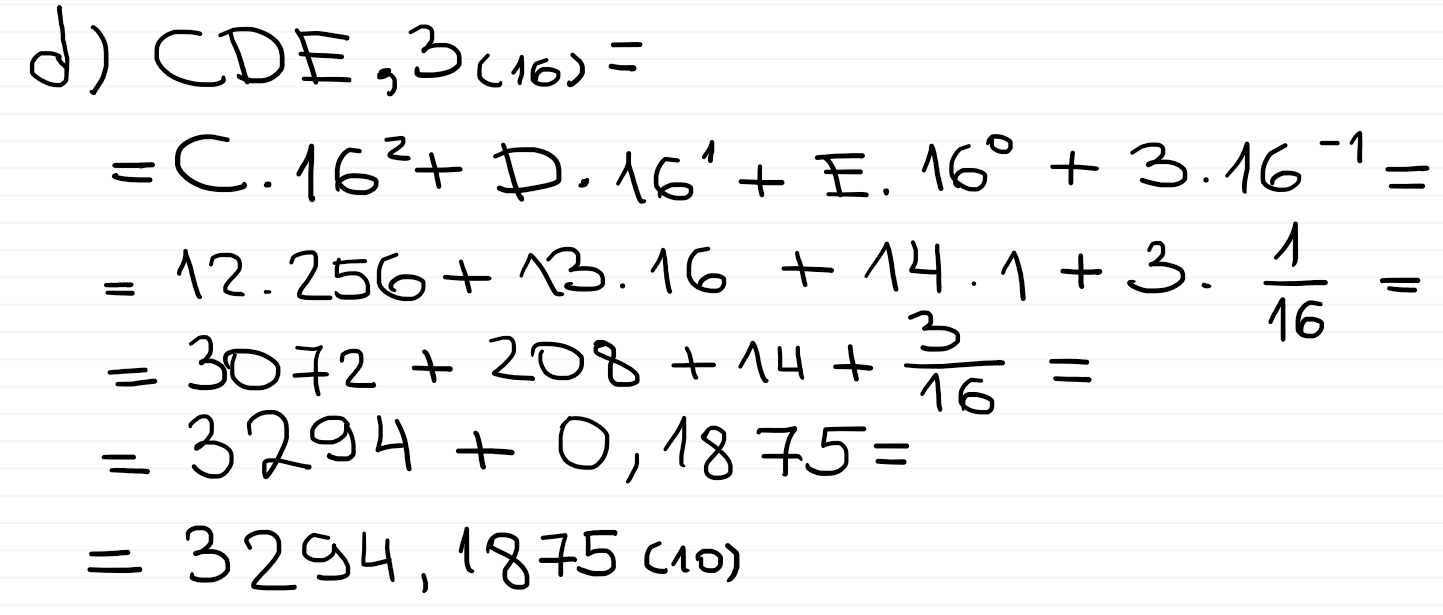
1. F1,03(16) = 241,01171875(10)



1. EF,B9(16) = 239.03515625(10)

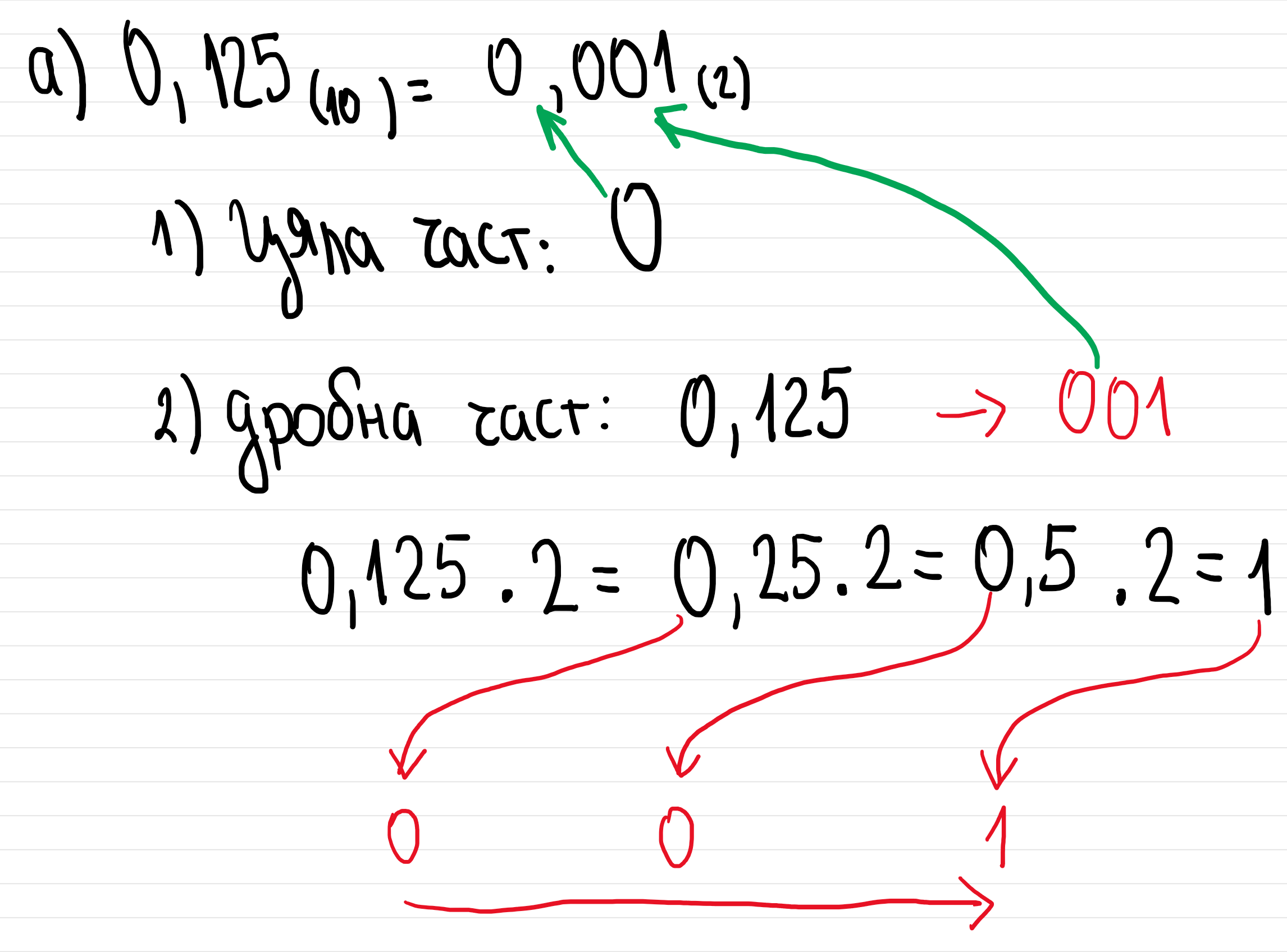


1. CDE,3(16) = 3294.1875(10)

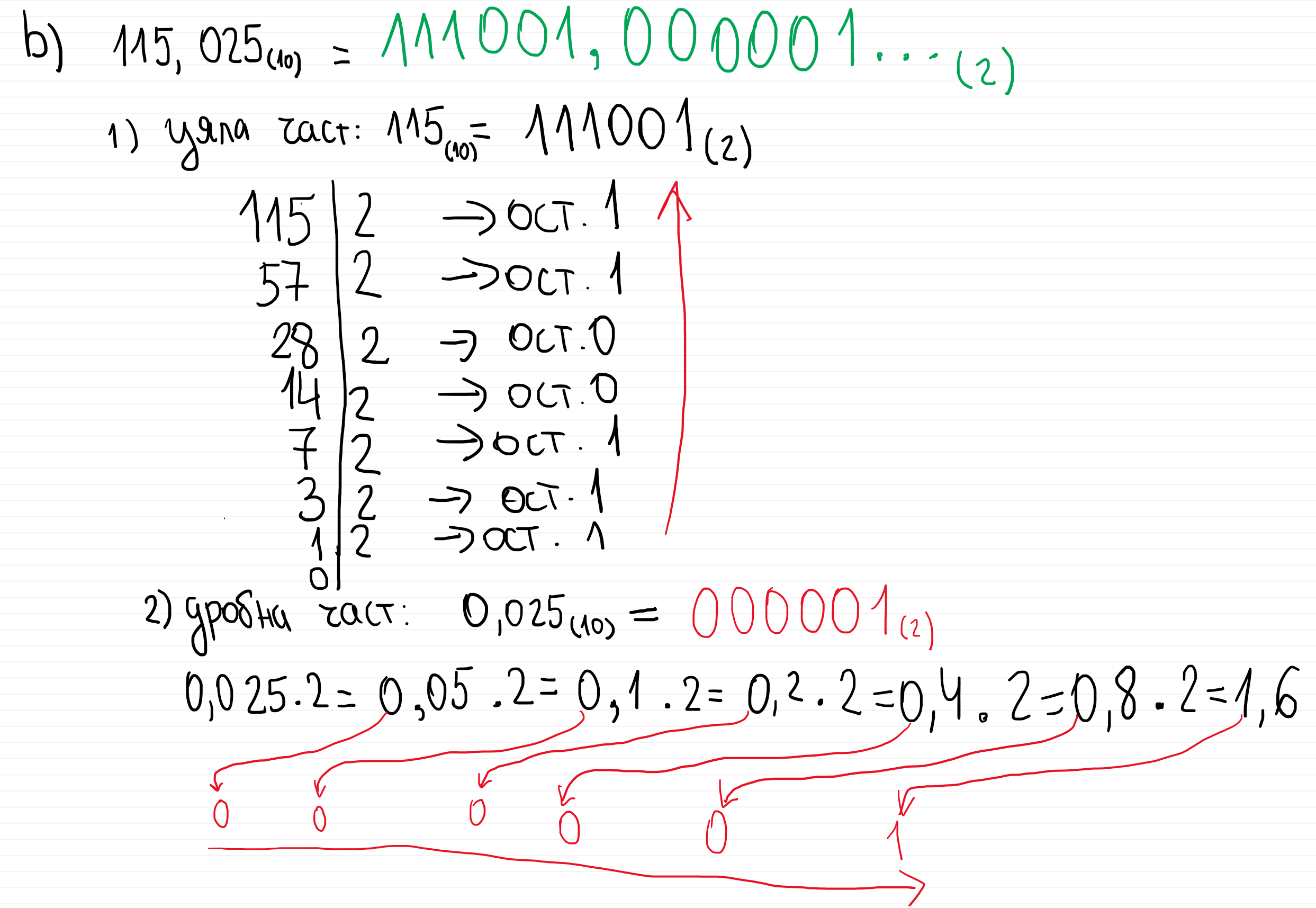


## Преобразуване от десетична в двоична бройна система

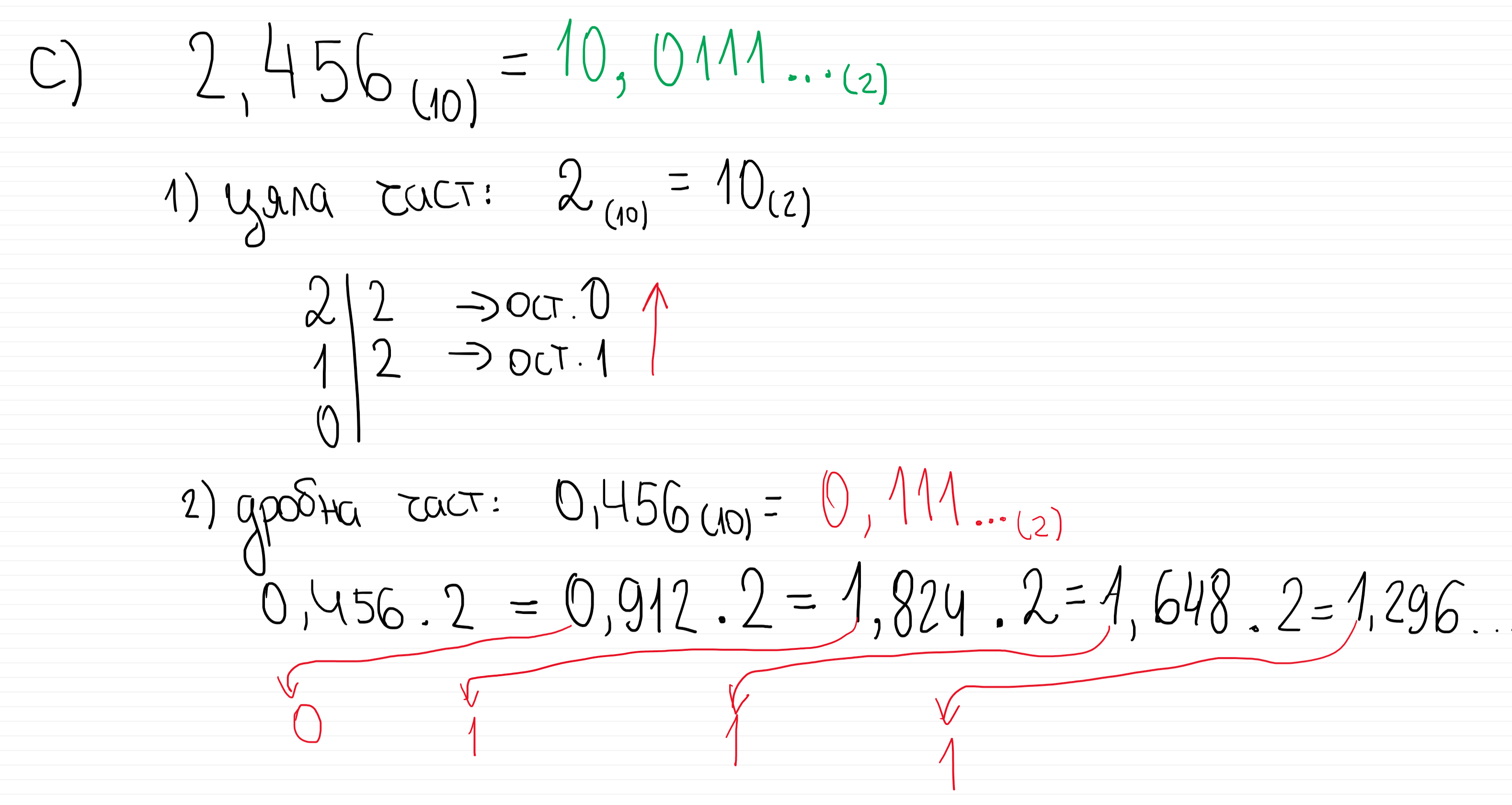
1. 0,125(10) = 0,011(2)



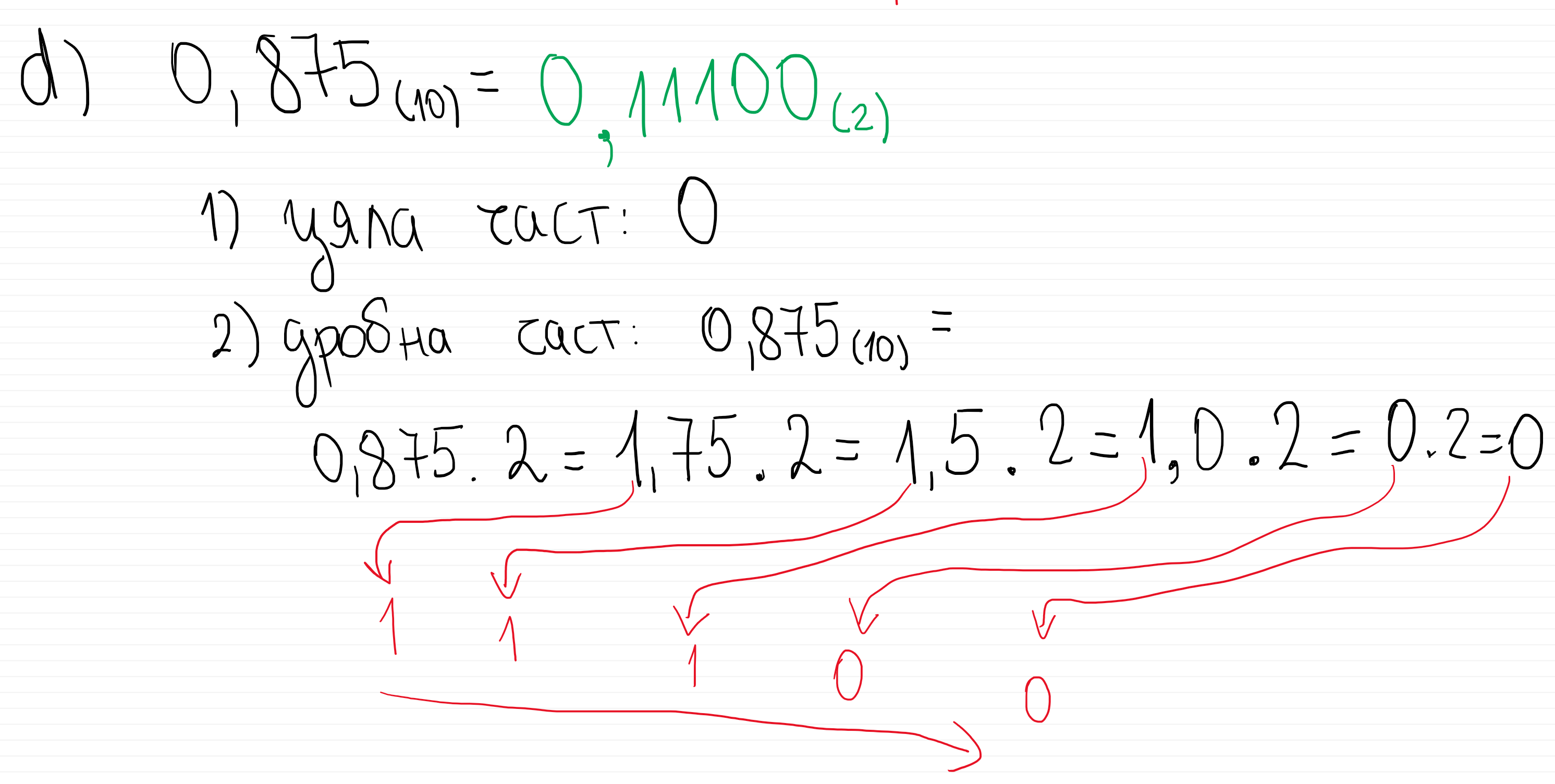
1. 115,025(10) = 1110011.000001…(2)



1. 2,456(10) = 10.0111…(2)

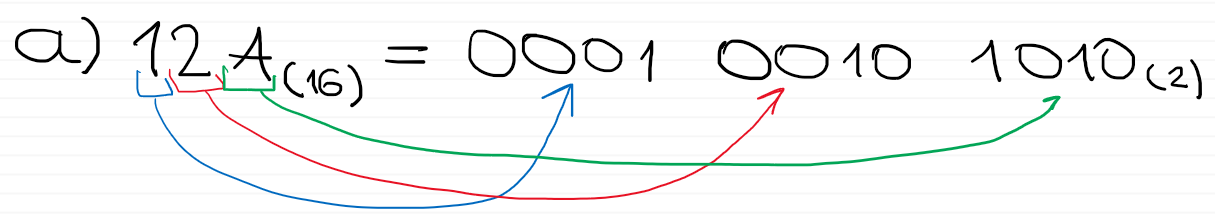


1. 0,785(10) = 0.1100(2)

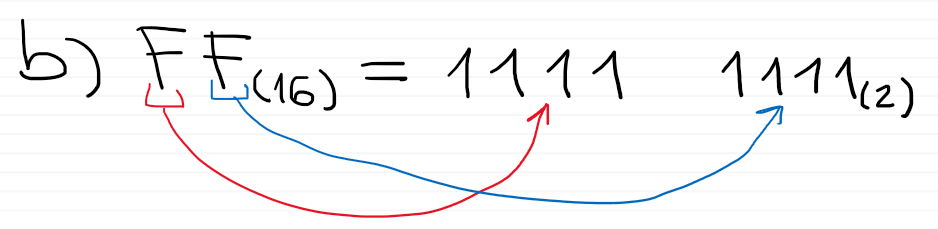


## Преобразуване от шестнадесетична в двоична бройна система

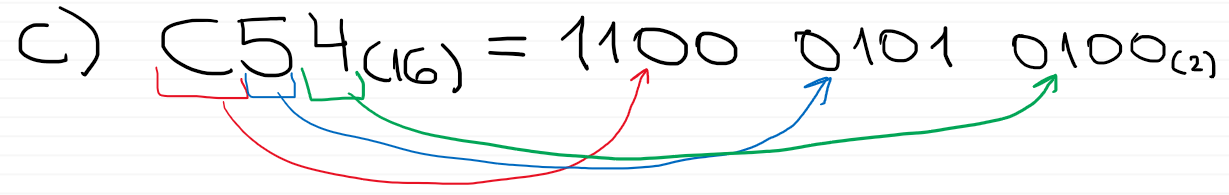
a) 12A (16) = 000100101010(2)



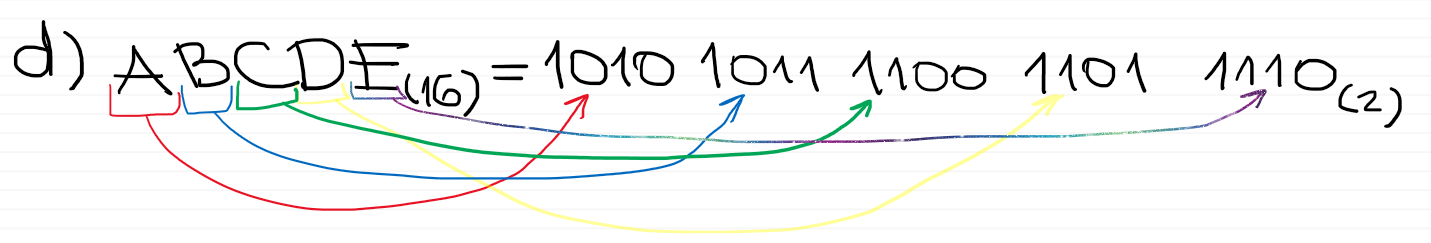
b) FF(16) = 11111111(2)



c) C54(16) = 110001010100(2)

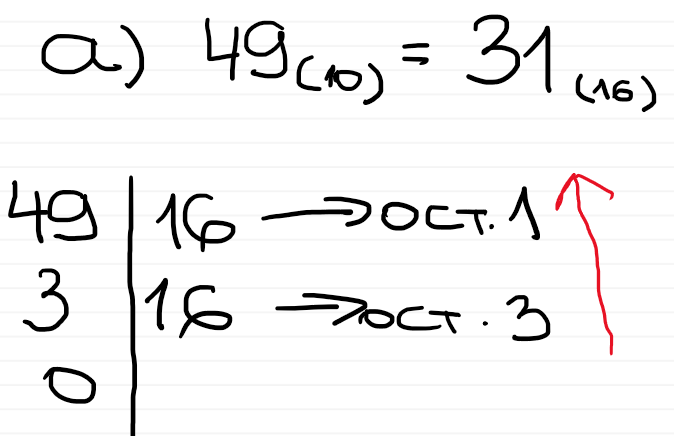


d) ABCDE(16) = 10101011110011011110(2)

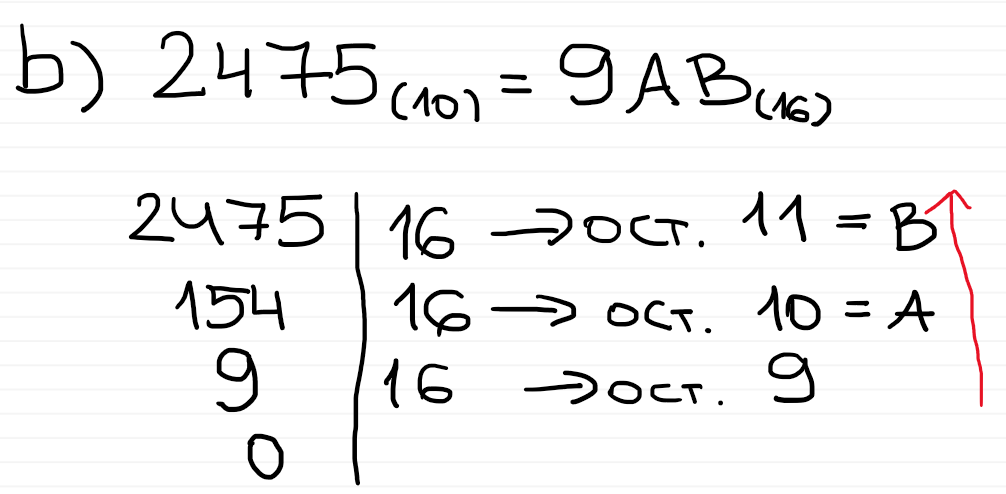


## Преобразуване от десетична в шестнадесетична бройна система

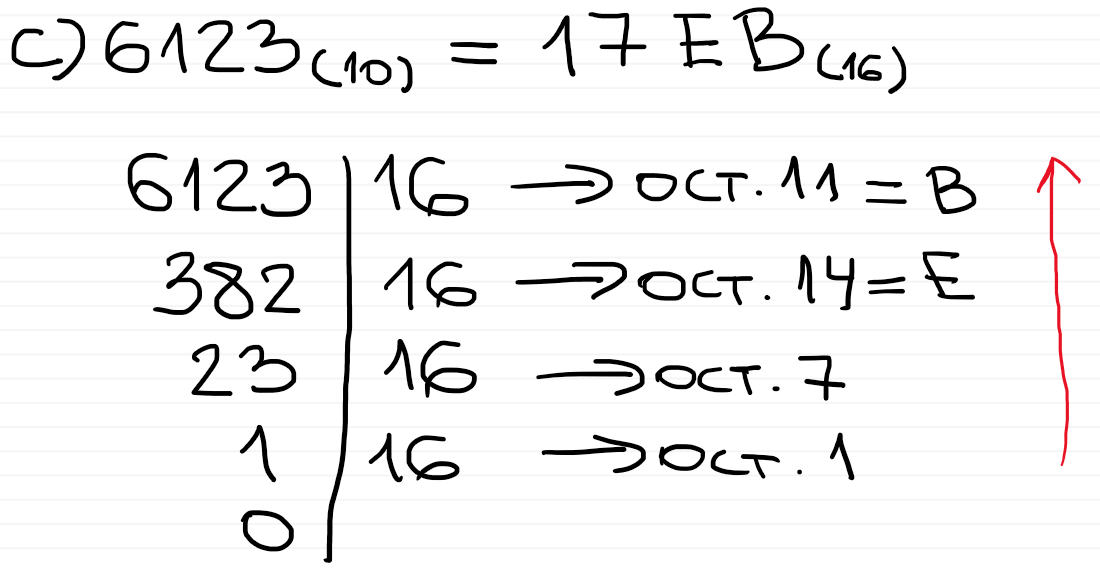
1. 49(10) = 31(16)



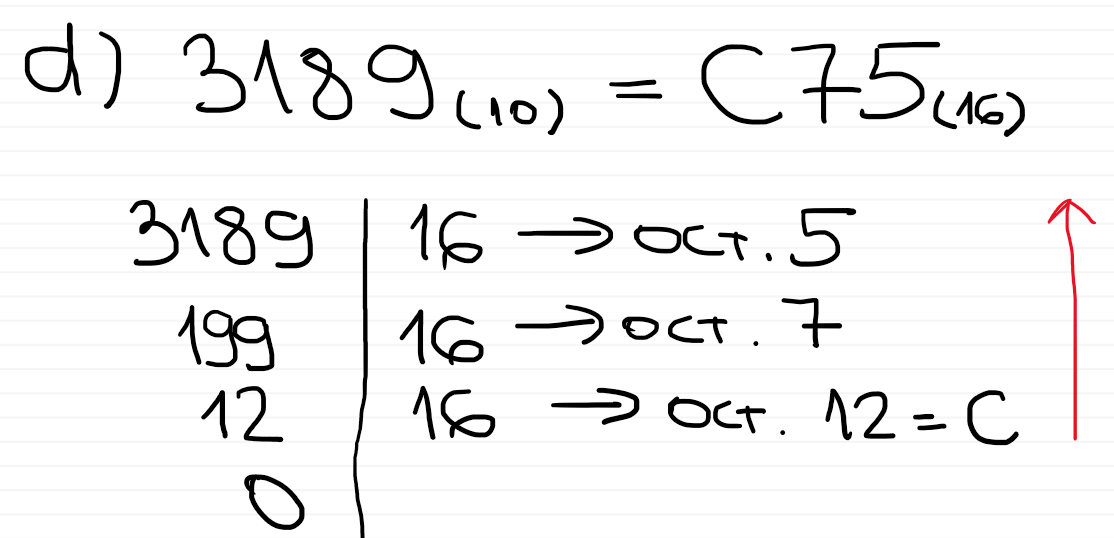
1. 2475(10) = 9AB(16)



1. 6123(10) = 17EB(16)

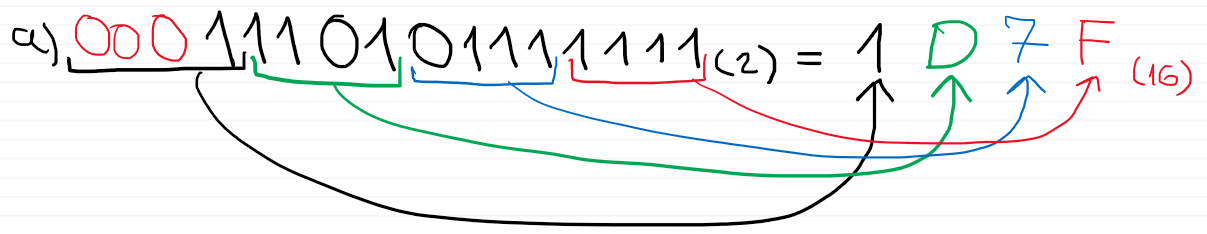


1. 3189(10) = C75(16)

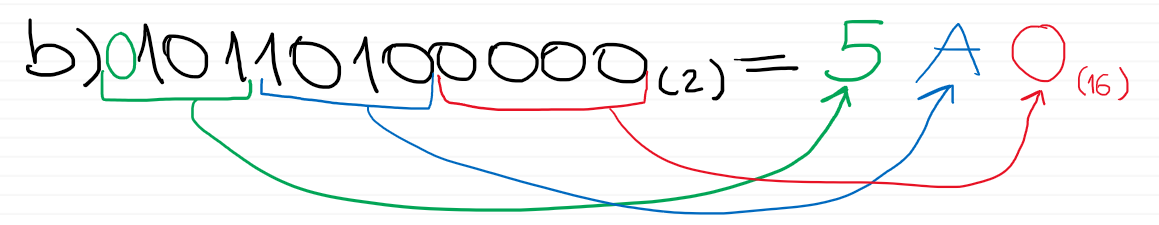


## Преобразуване от двоична в шестнадесетична бройна система

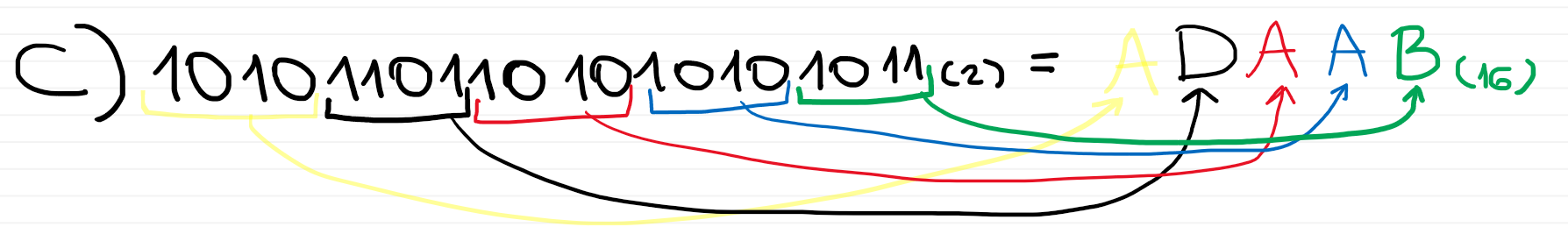
1. 1110101111111 (2) = 1D7F(16)



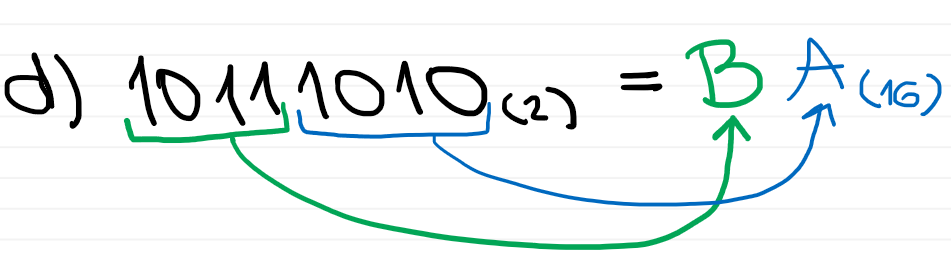
1. 10110100000 (2) = 5A0(16)



1. 10101101101010101011 (2) = ADAAB(16)

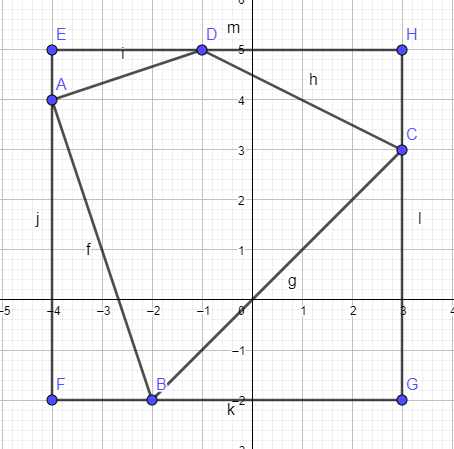


1. 10111010(2) = ADAAB(16)

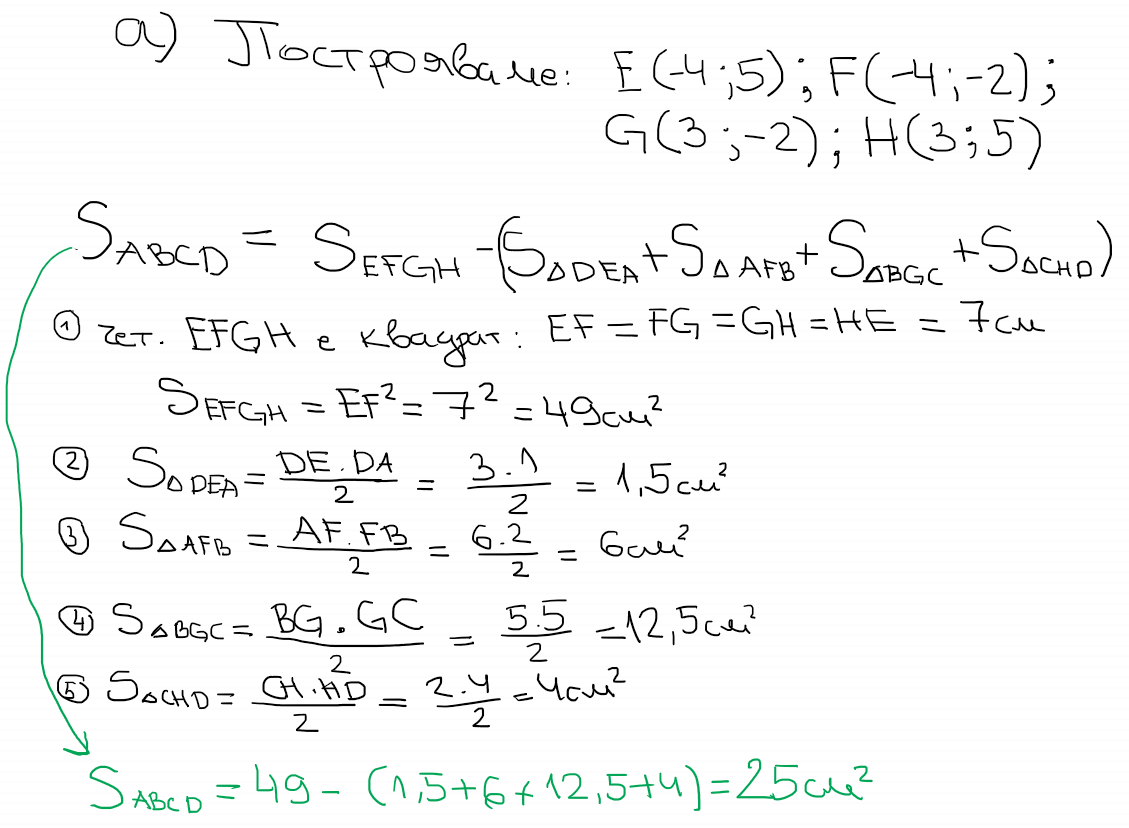


## Координатна система

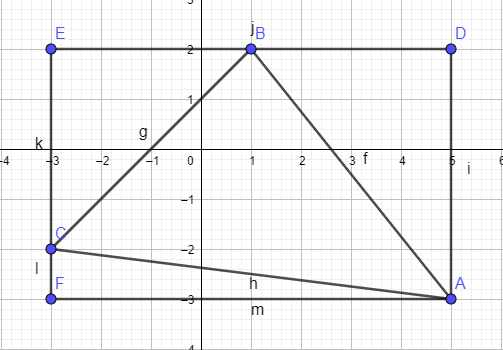
1. Чертеж:



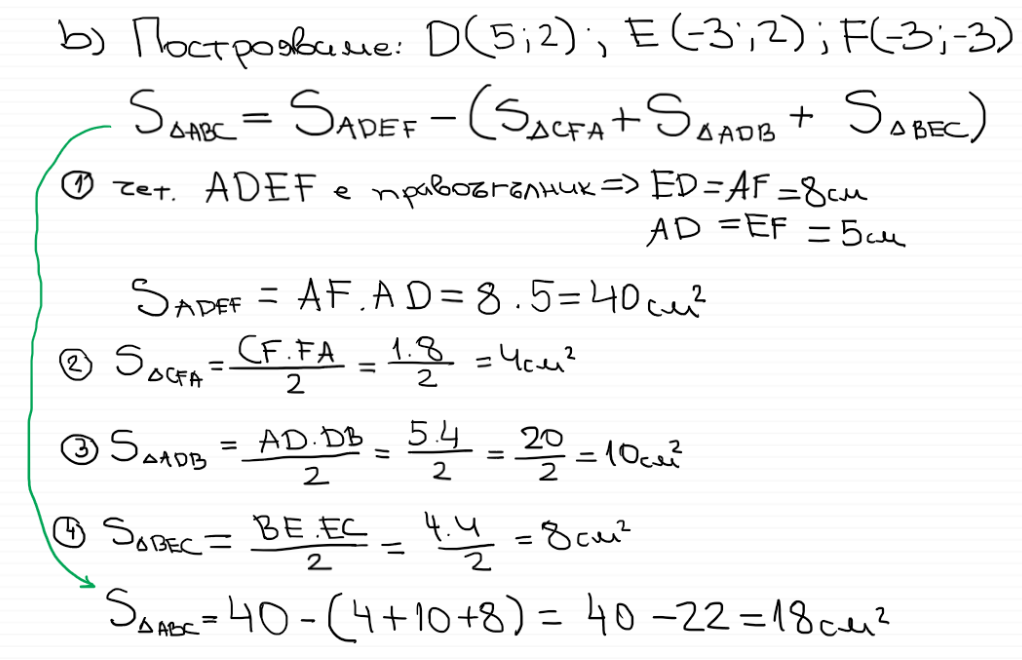
Решение:



1. Чертеж:

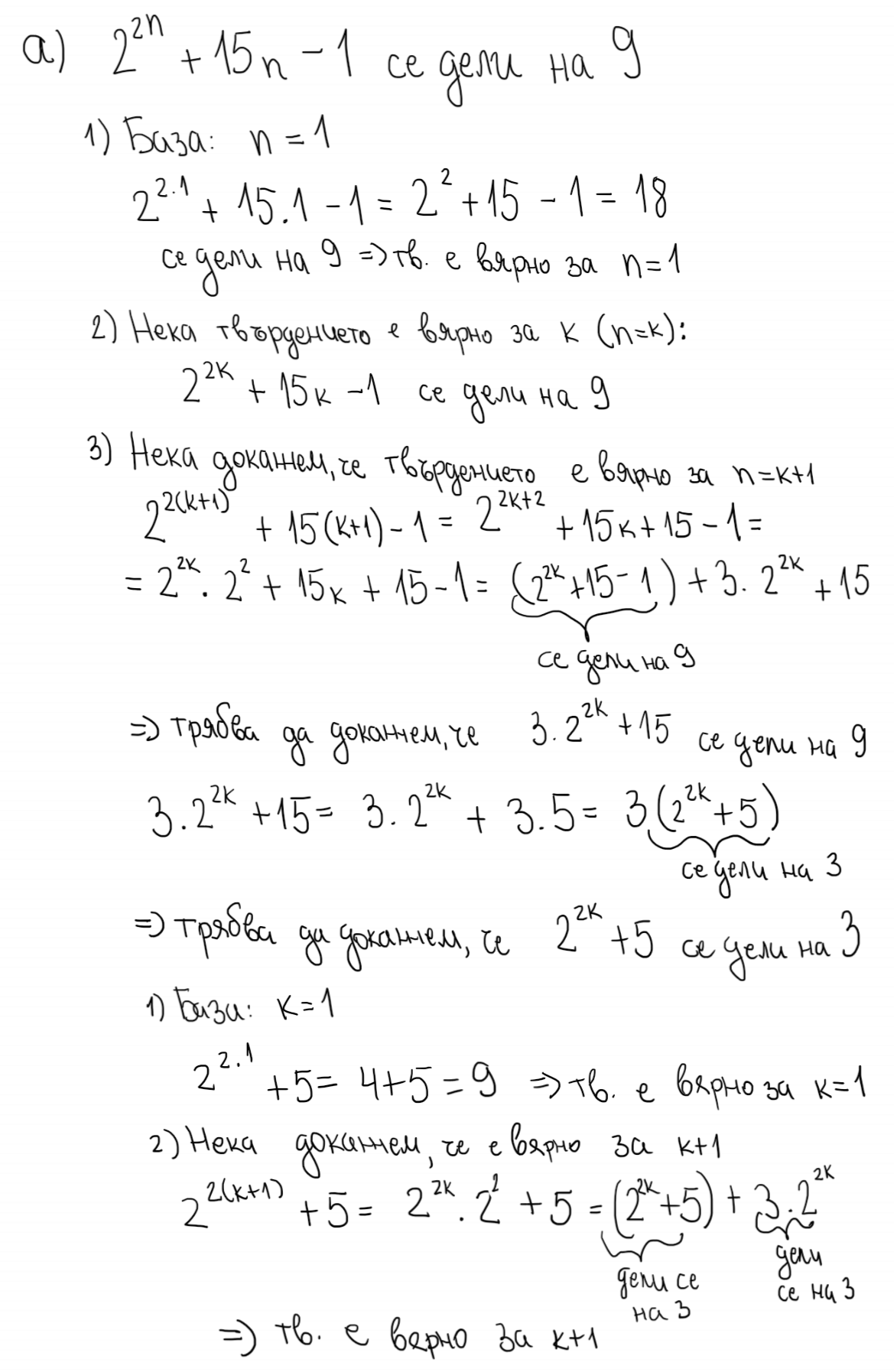


Решение:

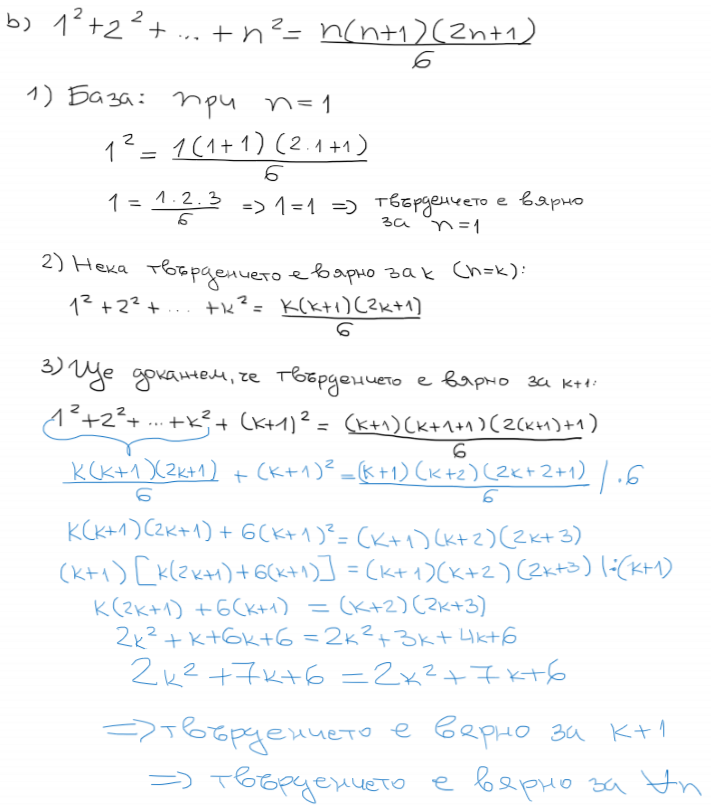


## Математическа индукция

1. Доказателство:



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