Sistemas Digitais

Bases de numeração – soluções

1. (a) $2058_{(10)} = 100000001010_{(2)}$
   (b) $24_{(10)} = 11000_{(2)}$
   (c) $15.134_{(10)} = 1111.0010001001_{(2)}$
   (d) $0.456_{(10)} = 0.0111010010_{(2)}$
2. (a) $1011010_{(2)} = 90_{(10)}$
   (b) $100001110_{(2)} = 270_{(10)}$
   (c) $10.0110_{(2)} = 2.375_{(10)}$
   (d) $0.101_{(2)} = 0.625_{(10)}$
3. (a) $10101010001.100100101011_{(2)} = 111101.210223_{(4)}$
   (b) $10101010001.100100101011_{(2)} = 2521.4453_{(8)}$
   (c) $10101010001.100100101011_{(2)} = 551.92B_{(16)}$
   (d) $10101010001.100100101011_{(2)} = 1AH.IAO_{(32)}$
4. (a) $A6_{(16)} = 10100110_{(2)} = 166_{(10)}$
   (b) $29_{(16)} = 00101001_{(2)} = 41_{(10)}$
   (c) $B0F1_{(16)} = 1011000011110001_{(2)} = 45297_{(10)}$
   (d) $C23E_{(16)} = 1100001000111110_{(2)} = 49726_{(10)}$
5. (a) $3480_{(10)} = 110110011000_{(2)} = D98_{(16)} = 6630_{(8)}$
   (b) $2157_{(16)} = 2011113_{(4)}$
   (c) $21011_{(3)} = 234_{(9)}$
   (d) $1100010111_{(2)} = 1427_{(8)}$