Problem#1:

( 10 )D = ( 1010 )B

( 10 )10 = ( 1010 )2

( 1010 )2 = ( 1x23 + 0x22 + 1x21 + 0x20 )

= ( 1x8 + 0x4 + 1x2 + 0x1 )

= ( 8 + 0 + 2 + 0 )

= (10)10

Problem#2:

( 103 ) D = ( 110 0111 ) B

( 110 0111 )2

= ( 1x26 + 1x25 + 0x24 + 0x23 + 1x22 + 1x21 + 1x20 )10

= ( 1x64 + 1x32 + 0x16 + 0x8 + 1x4 + 1x2 + 1x1 )10

= ( 64 + 32 + 4 + 2 + 1 )10

= ( 103 )10