

2. 10361 10

Converting to binary!

10100001111001 13121107676543210 bit #5

14 binary bits are needed to represent

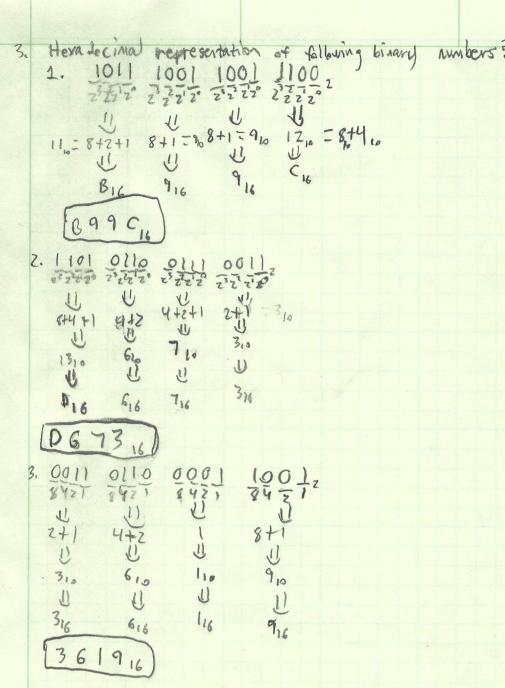
3. -417710

converting to binary:

signed, number system range:
-2 -4177 < 2 -1

to represent -4177, in twos-complement attribut sized number system

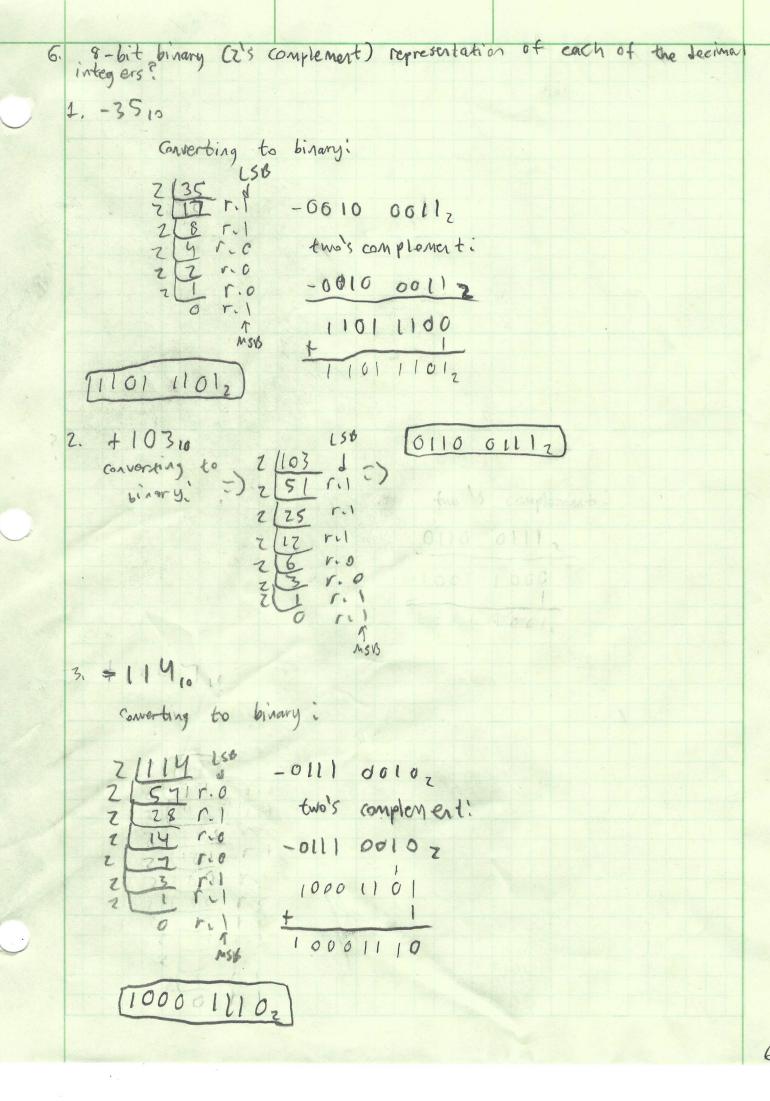
4



COM P 3350 01/20/2021 4. Decimal value of each hex integer using unsigned notation 1. 4024,6 4027 -> 4,163 +0,162 + 2.16 + 4.16° = 16384 +0 +32+4 = 1645010 Z. FEE,6 A= 10 B= 11 T12 (F514141) FEE => 15.16 + 14.16 # 14.16 - 3840 + 274 + 14.16 - 3840 + 224 + 14 54078₁₀ 3. 10 F 316 10 F3 (6 16 =) 1.163 + 0.16 + 15.16 + 3.16 = 4096+0+240+3=43396 hexalecinas 5. What is the 16-bit representation of each decimal integer? 1. - 619, (signed number) LSB 16 38 r.11 3B -26 B 16 2 1.6 Converting - 26 Bi6 to binary (base-2) -00100101011 Finding two's complement: 1111 1101 1001 0100 1111 1101 1001 51612 Comerting back to hexadecima !:

```
5. 2. -312,0
      Converting to binary.
            317
                 1.0
                 r.0
                      T)-0000 0001 0011 1000,
            19 11
                r. 1
                       Performing 2's complement:
                 rul
                        t 1111 1110 1100 0111
                 1.0
                        1111 $ 110 1100 1000,
                 F. 1
                  MSB
     Converting binary 2's complement number to 16-bit hexadecimal)
     1111 11100 10002
$451 8421
$451 8421
     |FE C8 16 |
    +194710
      Converting to bihany i
                          0000 0111 1001 10117
               LSB
                          Converting to Nexadecimal Chase-16 !
                         8 421 8 421 8421 8421
                r. 1
                1.0
         243
                                      9 117)B
         1521
                1.1
                         079B16)
          60
          30
                100
          15
       2
                1.1
                 MSB
```

5



write A SCIII code for the string "COVID" in hexadelings C =) 6150 86112 => 1319 0 => 0 106 11 112 => 4 F16 ハニンのする」を「うらくこ)とも16 I => Q 1 Q Q 1 Q Q Z C> 44 16 1434F564944, Rong e not decimal valves represented by 1. 7-bit unsigned integer? Range of 7-lit insigned integer in whomas Outo 127,0 27-1=128,0 [[O,, 128]] low wish 7. 7-bit signed integer Range: [-2(1-1), 2(1-1)-1] [-z(7-1), z(7-1)] => [-64, 63]