ECE 111 / 11/08 Lecture: 2 Today's class. (1) Recap (2) Conversion of various formati

Recap! 1. Write down (17-30) in Hex 2. What is the decimal consistent of (742)₁₆

$$(4)_{16} = (4)_{10}$$
 $(A)_{16} = (10)_{10}$
 $(10)_{16} = 16$

(20)16

$$(30)_{16} = (16)_{10}$$

$$(30)_{16} = (48)_{10}$$

$$(60)_{16} = (96)$$

(0)16

$$(A_0)_{16} = (208)_{10}$$
 $(D_0)_{16} = (208)_{10}$
 $(F_0)_{16} = (240)_{10}$

 $(00)_{16} = (256)_{10}$

Converting Hex to decimal

 $(a_n - a_2 a_1 a_0)_{16}$ = $a_0 16^0 + a_1 16^{-...} a_n 16^n$

Similarly any number can be Converted into decimal in the Same m anner $\left(a_{m+}a_{m-\cdots}a_{0}\right)_{\gamma}=\left(\sum_{i=0}^{n}\gamma^{i}a_{i}\right)_{i}$

 $Ane: (1000)_8 = (512)_{10}$ $(1001)_8 = (513)_{10}$

Converting (2 43) into binon

Smallest 's' disit in bringy
$$(10000)_2 = (16)_{10}$$

$$(243)_{10} =$$

$$(243)_{10} = \frac{1}{1}$$

$$(243 - 128) = 115$$

(5²)₁₆ divide by 1-6 Hex:

teu the largest 6 disit bracoy

$$2 \cdot 1 + 2 \cdot 1 + 2 \cdot 2 -$$

$$-\frac{4}{2} + 2 + 4 - \frac{3}{2}$$

$$-\frac{4}{63}$$