Which number below has the largest value?

A. 24_8 $= 2 \times 8 \ \ + 4 = 20_{10}$

B. 20_{16} $= 2 \times 16 + 0 = 32_{10}$

C. 22_{10} $= 2 \times 10 + 2 = 22_{10}$

Worked example

What is X?
Given that

$$\frac{3EA_{16} - 156_7}{X_8} = 49_{12}$$

Worked example (cont)

Convert each value to decimal:

$$\frac{3EA_{16} - 156_7}{X_8} = 49_{12}$$

$3EA_{16} = 3(16\text{^}2) + 14(16) + 10 = 1002_{10}$
$156_7 = 1(7\text{^}2) + 5(7) + 6 = 90_{10}$
$49_{12} = 4(12) + 9 = 57_{10}$

$(1002 - 90) / 57 = 16_{10} = 20_8$

Therefore X = 20

Is this a sequence of Gray codes?

010 -> 110 -> 100 -> 000 and
repeats

only 1 bit change
from one codeword
to the next

A. Yes ✓

B. No

C. Not sure