2.

$$= \left(1.2^{9} + 0.2^{8} + 0.2^{7} + 1.2^{6} + 1.2^{5} + 0.2^{4} + 1.2^{5} + 0.2^{4} + 1.2^{5} + 0.2^{6} +$$

$$= (512 + 64 + 32 + 8 + 2)_{10}$$

$$= (618)_{10}$$

b.
$$490 = 61 \times 8 + 2$$
 1
$$61 = 7 \times 8 + 5$$

$$7 = 0 \times 8 + 7$$

$$C = (576)_{8}$$

$$(101111110)_{2} = (101111110)_{2}$$

$$= (17 E)_{16}$$

$$(890)_{16}$$

$$(101) 1001 1100 0000)_{2}$$

$$\begin{cases}
-(445)_{10} \\
= (110111101)_{2} \\
= (675)_{8}
\end{cases}$$

$$g. \quad (11001)_{2}$$

$$= (1-2^{4}+1\cdot2^{3}+0\cdot2^{2}+0\cdot2^{1}+12^{0})_{10}$$

$$= (16+8+1)_{10} = (25)_{10}$$

$$= (4 \cdot 16^{2} + 10 \cdot 16^{1} + 13 \cdot 16^{0})_{10}$$

$$= (1024 + 160 + 13)10$$