

## NASA Permat

9/25/21

CSC 17A

Arlene Sagorinit

① 37.25<sub>10</sub>

$$37_{10} = \underline{2} \times 16^1 + \underline{5} \times 16^0$$

$$= 25_{16}$$

$$0.25_{10} = 0.25 \times 16 = \underline{4.0}$$
$$0 \times 16 = 0$$
$$= 0.4_{16}$$

$$37.25_{10} = 25.41_{16}$$

$$= 0010 \underline{0101} \cdot 0100$$

$$= 0.1001010100 \times 2^6$$

0.1 00 1 0 1 0 | 1 0 0 0 0 0 0 0 | 0 0 0 0 0 0 | 0 0 0 0 0 1 1 0

4 A 8 0 0 0 0 0

② 0.2<sub>10</sub>

$$= 0.2 \times 16 = \underline{3.2}$$

$$0.2 \times 16 = \underline{3.2}$$

$$0.2_{10} = 0.\underline{3}_{10}$$

$$= 0000.\underbrace{00}_{\text{}}11001100110011\dots$$

$$= 0.11001100110011 \dots \times 2^{-2} \downarrow$$

$$\begin{array}{r} 0000\ 0010 \\ + \quad \quad \quad 1 \\ \hline 0000\ 0011 \end{array}$$

0.11001101011001101111110

6

6

6

6

6

6

F

H