

$$37.25_{10} \rightarrow 25.4_{16}$$

$$25.4_{16} = 100101.01_2 = 1.0010101 \times 2^5$$

Positive so its zero

0 1 0 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0
 0 0 0 0 [0 0 0 0 1 0 1 0]

5

4

A

8

0

0

0

5

$$37.25_{10} = 4A80005_{16}$$

NASA

$$0.2_{10} \rightarrow 0.\bar{3}_{16}$$

$$1.100110011001 \times 2^{-3}$$

$$0.\bar{3}_{16} = 0.0011001100110011 \dots$$

positive so zero

$$0100110011001100110011001$$

$$\left[\begin{array}{cccccc} 1 & 0 & 0 & 0 & 0 & 1 & 1 \\ 1 & & & & & 1 & \end{array} \right]$$

negative

4 C C C C C C

8

3

$$0.2_{10} = \boxed{4CCCCC83_{NASA}}$$