## 4 Byte Float Representation a) $8_{10} \rightarrow 1 \times 2^3 = +0.1 \times 2^4$ 0100 0000 0000 0000 0000 0000 0100 MANVISSA Characterista 4 0 0 0 0 0 0 4 Hex 40000004 = 8,0 -8,0 - 2's complement CO000004 = -8,0 first bit is 1 b) $1 \times 2 = 0.1 \times 2$ $1 \times 2 = 0.1 \times 2$ $1 \times 2 = 0.1 \times 2$ 0/00 0000 0000 0000 0000 1111 1110 4 0 0 0 0 0 F E -, 125 N

C0 0 0 0 0 F F

e) 
$$1_{10} = 19_{16} = .00011_{2}$$

$$= .1100 \times 2$$

$$= .1100 \times 2$$

$$32 \text{ bit nep}$$

$$0110 0110 0110 0110 0110 0110 0110 1111 1101,$$

$$6 6 6 6 6 6 F D$$

-, 1,0

9 9 9 9 9 A FD

MER