1. Convert the decimal number -30.375 to IEE short (32-511)
Standard floating-point formal.

11110.011

6.1110011 x 25

133 RG 16 R1 2 RO 4 RO 2 RO 11 RO ORI

RO RO RO U RO ORI

$$|42_{10} = 1000 | 1110z$$

$$0.65675 \times 2 = (1)3175$$

$$0.3175 \times 2 = (0)675$$

$$0.625 \times 2 = (1).25$$

$$0.55 \times 2 = (1).25$$

$$0.55 \times 2 = (1).25$$

$$0.65675 \times 2 = (1).25$$

$$0.65675 \times 2 = (1).25$$

$$0.65675 \times 2 = (1).25$$

1.0001 1101 0101 000 0000 0000