b) Convert to Big Enclain

01000010,11110111,00111001,10010011 - LE

10010011,00111001,11110111,01000010 - BE

• sign:
$$f \vdash$$
 negative

• exponent: $2^{f} + 2^{2} + 2^{5} - 127 = -89$

• mantissa: $f + 2^{2} + 2^{-3} + 2^{4} + 2^{7} + 2^{8} + 2^{7} + 2^{19} + 2^{1$

c) Convert to Brof Endian

11000011010101110,10 0111 00,11001010 - LE

1,1001010,10011100,01011110,1100 0011 - BE

• sign:
$$\ell$$
 - negative

• exponent: $2^{+}2^{0} + 2^{2} + 2^{4} - 12^{7} = -206 + 2^{7} = 22$

• mantissa: $1 + 2^{-3} + 2^{-4} + 2^{5} + 2^{-9} + 2^{14} + 2^{-13} - 2^{14} + 2^{-42} + 2^{-13} = 2^{-23} = 2^{-23}$
 $\approx 1,22,169$
 $x = -2,22,269 \cdot 2^{22} \approx -5,22410 \cdot 20^{5}$

7. d) Yes, if X is NaN, because IEEE 754 souss that NaN is not equal to any value, including itself. e) No. If n is infinite, then Y is NaN. if n is NaN, then Y is also NaN. f) Yes. If Y will be too small relative to X(Y is smaller that epsilon of X) due to the limited floatingpoint precision & X+Y==X 3) No Adolition is not associative for floating-point precision.