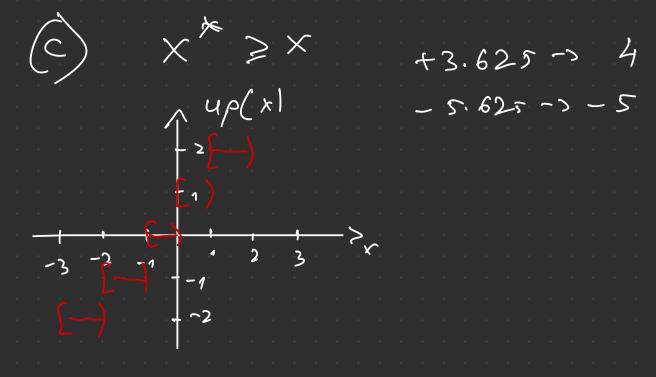
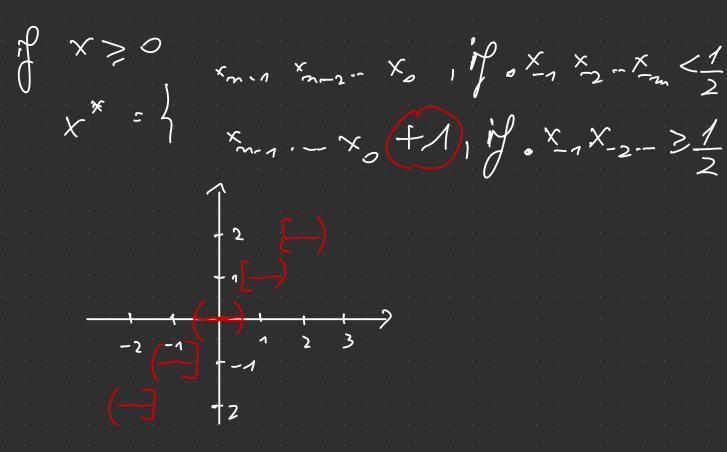
Round to Zero Significand Ym mr. faño sema $\times + \gamma = \left[\times_{M} + \gamma_{M} \cdot \lambda \right] \cdot 2 \quad | \mathcal{J} \times_{E} \geq \chi_{E}$ ZM 1,

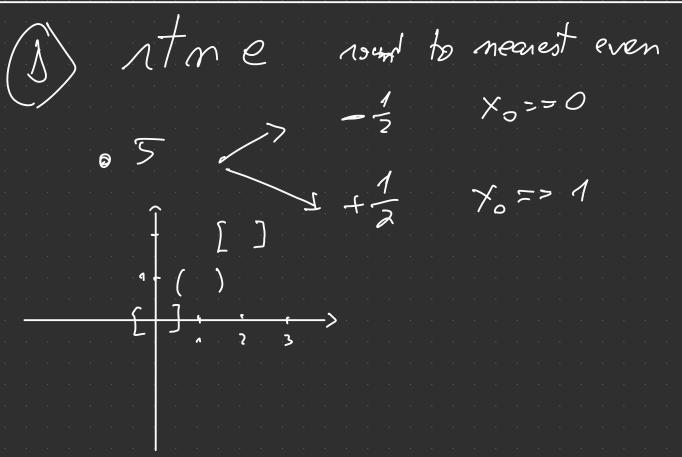
 E_{x} . x = 43.625 x = 9011.101 x = 0011 = 3 (trunc) x = -5.625 x = 1191.101x = -5 (trunc)

 $|\times^{*}| \leq |\times|$ 3.625->3 -5.625~-5 notunier in jos B) X = X Ron x < x cerl $\frac{dsum(x)}{1} = \frac{-1.625}{1.625} = \frac{-2}{1}$ $\frac{1}{1} = \frac{1}{1} = \frac{1}{$ -3-2-1 2 3 × x= 3.625 = 0011.101 C2 x= 3 = 0011.101 C2 x; 5.625; 10101.101 x; -5.627 = 1010.011 C2 $x^* = 1010$ $\rightarrow x^* = -6$ y x 6 0 x 1 x 2 - x m==0



12.2 -> 2 +2.99 -> 3 +2.5 -> 3 +4.5-> 5





Reguli de normalizare si notunjinea unui repultat f.p.

Zs m 30 Rounding mode ignone R, S truncate down if (R 91 S) then 25m + 1 up if (Rand (Son Zon)) then Zonn+1 nearest even 25 m 20 Rounding mode truncate if (2 on S) then 2mm - 1 doum up if (f and (S or Zon)) then Zym - 1 meanest even

Format FP simplificat Inedus 1 bit semm 3 exponent (e=3)-> bias 2-1=3 4 significand X = +6.5 = 110.1.2 = 1.101.2 Y = -7 = -111.0.2 = 1.101.21 1 101 1100 0 101 1191 Posul (2) d= x=-/= d20-1 (x)2 | y| 3= /= d=0 d>0-> 2==X= ~> 2== X== 5

(3) if $sign(x) \neq sign(y)$ -> Complementare $\frac{1}{5}$ $\frac{1}{5}$ = 0.010

-x+y
-(x-y) 1d1; if (3) compl. -> Interoducere biti de 1 911,3 3 = 2 1.111 1.0 0 0 $\frac{2}{2}$ $\frac{2}{5}$ $\frac{2}$ 2 -= 3 3 shifton 6

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Refunjines $Z_{mn} \rightarrow Z_{mn}$ $R.(S+Z_{om}) \rightarrow O(0+0) = 0$

(9)