## 14 Ques-Kon 27

(0.3000) x2 3 = 1/6 (0.1007), × 9-3 = 9/128 (0.2010) 2 x2-3 = 5/64 (0.7077) 9×2-3 = -7/128 (0. 1700), x 2 3 = 3/32 1/16 2/00 3/64 1/100 3/32 3/100 Ten 1/100 (0.1101)2×23 = 13/128 1/2 /128 (0.7710) 2 x2 3 = 7/64 (0.1111) × 2 3 = 15/28

Here, from one point to another point, 5
difference is 7/128. So the number line is

of Canallarisi

(3) 101 onkorkonum

1 Hachine epsilon for -

@ Maximum delda value -

M Buchten 10

(3.28) = 
$$(30.003)_{2} \times 2^{2}$$
 [Normalized form)

=  $(3.0003)_{2} \times 2^{2}$  [Normalized form)

=  $(3.0003)_{2} \times 2^{2}$  [Rounded form)

$$(2.2018)_{10} = (10.00110...)_{2}$$
  
=  $(1.0001)_{2} \times 2^{2}$  [Nonmalized]  
=  $(1.001)_{2} \times 2^{2}$  [Rounded form]

(b) Herce 
$$f(x) = (1.001)_2 \times 2^{\frac{1}{2}}$$

$$= (2.25)_{30}.$$

$$\therefore \text{ Rounding evirion } = |2.25 - 2.23|$$

$$= (0.02)_{30}.$$