(b) (9) Let x= . 6.80 5.125 and y = 7.625, Using Normalized System B=2, and m=5. Find. (a) fr f1(x)1. 2 f1(y) (b) 35 x (10/11/1) comb lastemony (d) $x = (5.125)_{10} \rightarrow (101.001)_{2} \times 2^{\circ}$ Wormalized form -> (1.01001) 2 x 22 m=5 2501 x 202 -(1.01001)2 x 22 m=5, so if it rounded to same value, with no sessy 11/00/) X= (5.125) 14 35 x 0(00011100,1) +(n)=(5.125)10

Normalized form
$$\rightarrow$$
 (11. 101) $_{2}$ \times 20

Normalized form \rightarrow (1.1101) $_{2}$ \times 2 2
 \downarrow $m=5$

(1.1101) $_{2}$ \times 2 2
 \downarrow $m=5$
 \downarrow $m=5$
 \downarrow $m=5$
 \downarrow $m=5$

$$\frac{(1.00111)_{2} \times 2^{5}}{(1.00101)_{2} \times 2^{5}} = \frac{(1.01.000)_{2} \times 2^{5}}{(1.01.000)_{2} \times 2^{5}}$$

$$\frac{(1.01.000)_{2} \times 2^{5}}{(1.01.000)_{2} \times 2^{5}}$$

$$\frac{(1.01.000)_{2} \times 2^{5}}{(1.01.000)_{2} \times 2^{5}}$$

$$\frac{(1.01.000)_{2} \times 2^{5}}{(1.01.000)_{2} \times 2^{5}}$$

$$\frac{(2)}{(2)} \quad \text{Same as before but now } m = 4.$$

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$$\frac{(1.01.001)_{2} \times 2^{2}}{(1.01.001)_{2} \times 2^{5}}$$

$$(1.0100)_{2} \times 2^{2}$$

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$$(1.0100)_{2} \times 2^{2}$$

$$(101.00)_{2} \times 2^{2}$$

$$(1.1110)_{2} \times 2^{2}$$

$$(1.1111)_{2} \times 2^{2}$$

$$(1.1110)_{2} \times 2^{2}$$

(1.0010), x25 $(27)_{10}$ $(37.5)_{10}$ $(1.0011)_{2} \times 2^{5}$ (1.0010) × 25 (00100.)2×20 $(100110.)_{2} \times 2^{\circ}$ $(38)_{10}$ (36/2 (25) +) = 25.4.54° - 10/4 Aug - 36+38 = 37 fl(xxy) = (38)10(24) = (1.0011) 2 × 25 Ex(11913e 1) c. hesdingion