Ans 1

(g)

(1)
$$M_{ax} = \left(0.1111\right)_{2} \times 2^{4}$$

$$M_{0} = \left(0.1000\right)_{2} \times 2^{-3}$$

(2)
$$Max = (1.111)_2 \times 2^4$$

 $Min = (1.0000)_2 \times 2^{-3}$

(3)
$$M_{2x} = \left(0.11111_{m=4}\right)_{2} \times 2^{4}$$

$$N_{14} = \left(0.1_{0000}\right)_{2} \times 2^{-3}$$

(b)

$$(3) \quad \text{e.num} = (3) \quad = 8$$

(1)

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(5)

NM

(e)
$$2^{m} \times e^{numol.0}$$

(3) 2 mx e num!!!!!

7.24 X8 \$ 0.1)

(C)

(1) Marz + (6.71/1) x 24

(2)

 $M_{2x=} + (1.1111)_2 \times 24$ $M_{11} = - (1.111)_2 \times 24$

(a)
$$Max = +(0. |1111) \times 24$$

(b) Take the values from (b) and multiply by 2.

(c) $(0.1 \times 2^{-2}) \times 2^{-2}$

(o.100) 2×2^{-2}

(o.1111), x 2 -27.57

1 Sx - (11111) 2 x 2 x (0.1000) (0.1001) (0.101) (0.101) (0.1101) (0.1111) (0.1111) Equally spared shown.

$$\frac{-b \pm \sqrt{12-42c}}{29} = -\frac{(-16) \pm \sqrt{(-16)^2-4.16}}{29}$$

$$\frac{2}{8} \pm \sqrt{236} = -\frac{(-16) \pm \sqrt{(-16)^2-4.16}}{29}$$

$$\frac{2}{100} = 8 + \sqrt{236} = 23.862$$

$$\frac{2}{100} = 8 + \sqrt{236} = -\frac{1}{23}.623$$

$$\frac{2}{100} = 8 + \sqrt{59} = 0.31885$$

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$$\frac{2}{100} = \frac{1}{100} = \frac{1}$$

Solution

X, B are roofs

&B=5

Find 9, wing 8+7.6811.

=)
$$\beta = \frac{5}{15.681} = 0.31885$$
 (same as actual x_2)