$$\frac{2K}{2M} = \frac{k}{M} = \frac{1}{5}$$

$$\frac{k}{M} \in \mathbb{Q}$$

$$\frac{1}{2M} = \frac{k}{M} = \frac{1}{5}$$

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

$$r = \frac{a}{b}, q = \frac{c}{\lambda} = \frac{a\lambda}{b} + \frac{cb}{\lambda} = \frac{a\lambda}{b\lambda} + \frac{cb}{b\lambda} \in \mathbb{Q}$$

$$\frac{a}{b} - \frac{c}{\lambda} = \frac{a\lambda}{b\lambda} - \frac{cb}{b\lambda} \in \mathbb{Q}$$

$$r, q = \frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd} \in \mathcal{D}$$

$$\frac{r}{q} = \frac{\frac{a}{b}}{\frac{c}{\lambda}} = \frac{a\lambda}{bc} \in \mathbb{Q}$$

b,c,l,eel -> my 4

$$q = \frac{b}{c} \in \mathbb{Q}$$

$$x = \frac{d}{e} \in \mathbb{Q}$$

$$\alpha + q = q + x - q$$

$$\alpha = x$$

$$| (a) = x | (a) = x | (a) = x |$$

$$x \in Q - Q$$

$$x \in Q - Q$$

$$a - q = x - q / r q$$
 $a = x$ 
 $|4|^2 = |0| |1| |1| |5|$ 
 $x \in \mathbb{Q}$ 
 $|0| |1| |1| |1| |4| |2| - 0$ 

$$q = \frac{b}{c} \in \mathbb{Q}$$

$$x = \frac{d}{e} \in \mathbb{Q}$$

e,cto new b,c,l,eel ony (5)

3 
$$A = \{n / 2 : fac now n \}$$

$$q = \frac{a}{b} \in \mathbb{Q}$$

$$Z = n\sqrt{2} \in A$$

$$\frac{1}{2} \int_{-\infty}^{\infty} \int$$

$$N + M = K = K$$
 $(N+M) V_2 = K V_2$ 
 $N+M=k \in N$ 
 $S(-1, 1) = K V_2$ 
 $S(-1, 1) = K$ 

$$A = \{p + q \sqrt{2} : \text{ is in the proof } p, q \}$$

$$\forall a_1 a_2 \in A \qquad A \Rightarrow a_1 a_2 \in A$$

$$\alpha_1 : p_1 + q_1 \sqrt{2} \qquad p_1, q_1 \in Q$$

$$\alpha_2 : p_2 + q_1 \sqrt{2} \qquad p_2, q_2 \in Q$$

$$\alpha_1 + \alpha_2 : (p_1 + q_1 \sqrt{2}) + (p_2 + q_1 \sqrt{2}) = p_1 + p_2 + \sqrt{2}(q_1 + q_2) \in A$$

$$\gamma = p_1 + q_1 \sqrt{2} \qquad p_2 \in Q$$

$$\gamma = p_1 + p_2 + \sqrt{2}(q_1 + q_2) \in A$$

$$\gamma = p_1 + q_1 \sqrt{2} \qquad p_2 \in Q$$

$$\gamma = q_1 + q_2 \sqrt{2} \qquad p_3 \in Q$$

$$\gamma = q_1 + q_2 \sqrt{2} \qquad p_4 \in Q$$

$$\gamma = q_1 + q_2 \sqrt{2} \qquad p_4 \in Q$$

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$$\gamma = q_1 + q_2 \sqrt{2} \qquad q_4 = Q$$

$$A = \left\{ \times \in \mathbb{R} \mid \frac{X^{-1}}{X^{+}2} \leq 0 \right\}$$

$$\frac{x-1}{x+2} \le 0 / (x+2)^{2}$$

$$(x+2)(x-1) \le 0$$

$$x^{2}-x+2x-2 \le 0$$

$$x^{2}+k-2 \le 0$$

$$\chi_2 = -\frac{1-3}{2} = -2$$

: Max A=1

1.1 (i.x y = X = 1 = X = 2 - C1 (1) prdi.d · MaxA = SupA = 1 /oli. I - N Tipo

.: P") Le minA

A pla M of met, A BARR Min P" N "> ilisea My -2-MSI (=> A /h Me /11) N=M, Xet /25

-2 ( y < M < 1 y pr) 20.030 Colu 00

.. yet pr

Int (A)=-2 M-r |CD KIDE Y 10000 A-D ork le 1,60

-2<5 081 1 CN/N 30pm de 00mm 5 pr/10 1/00 my -2 -2 S PON Jik 5-6 PDD X >2: 8 PD Xet 12.18 11.187 1.187 POR , Sido X = S + (-1) $-2 > \times > 5^{1}$ fold noon lik ps 1, si · Inf(A) = -2 ) jon  $A = \left\{ x \in \mathbb{N} \mid \frac{(-1)^n}{n}, n \in \mathbb{N} \right\}$ A=A,UAZ:  $A_{1} = \left\{ X_{+} R \mid \frac{(-1)^{n}}{N}, N \in \mathbb{N}, N \geq 2 \right\}$  $A_1 = \frac{1}{N} = \frac{(-1)^2}{2} = \frac{1}{2}$  - Max  $A = Supt = \frac{1}{2}$  $A_2 = \left\{ X \in \mathbb{R} \mid \frac{(-1)^n}{n}, n \in \mathbb{N}, n \geq 1 \right\}$ 

 $A_{2} = \frac{1}{N} = \frac{-1}{1} = -1 \Rightarrow \text{min } A = \text{int} A = -1$   $A \Rightarrow -1 \leq X \leq \frac{1}{2}$ 

MaxA=2 X = AZ 11. Let, A M XEA S -10x00 Sh XeAz all 0 < x < 1 Sh XeAz all 0 < x < 1 Sh XeAz all 0 < x < 1 Sh XeAz all pol X = AZ 11. Ket, AM XEA B -10x00 S1 XeAz ~11 00xx52 S1 XeAz ~10  $\frac{1}{2} = \text{max} A = \text{Syp} A, \quad 1 = \text{Min} A = \text{in} A$  $A = \left\{ \times \in \mathbb{A} \mid \chi = (-1)^{N} + \frac{N}{N+1}, N \in \mathbb{N} \right\}$  $\frac{1}{1} = \left\{ X = 1 + \frac{N}{N+1} \right\}$  $A_1 \rightarrow \frac{6}{3} \leq X \leq 2$  $\frac{1}{1} = 1 + \frac{2}{2+1} = 1\frac{2}{3}$  $\sqrt{\frac{1}{N}} = \frac{1}{N} \times \frac{1}{N+1} = \frac{1}{N}$ A2-> -125 X < 0  $A_1 = (-1) + \frac{1}{2} = -\frac{1}{2}$  $A = A_1 U A_2$ 

- Min A · X = A2 11 X e A, 10" pw / X e A So X e A2 - M x l P" pw / lin Sh X e A, 10 / 10 Sh X e A Sh -1=x God -1=x<0 1.1/1 (1) St. Xet als

o min A = int A = -2 ') p'oil p'oil = SUPA Le A2 11 XeA, 1/2 XeA So -2 = X<0 SI, XeAz 1/1 = X = X<2 SI, XeA1 // 1-11 X<2 CDON 3 = X<2 //NN NN Sh XeA1 NL

"Se , Du max p", If A 23/2/1 ", pool mil NICA p:001/2 (I) NX/1 (I) NX/2 (I) CODA . CODA X<2 'KNA ~1. Ab 1.1. MO 5 < X <2

$$A = \left\{ x \in \mathbb{R} \mid x = \frac{1}{n} + CosGan \right\}, n \in \mathbb{N} \right\}$$

$$A = A_1 \cup A_2 \qquad Cos \pi = -1$$

$$A_1 = \lambda = \frac{1}{n} + 1 = \frac{1}{2} + 1 = \frac{1}{2}$$

$$X = \frac{1}{N} - 1 = \frac{1}{N} -$$

: 1/2 = MaxA=Supt Xetz 1k XeA, r''pu XeA S -1 < X < 0 SK XeA, DA 1 < X < 1/2 Sh XeA, DK | SI X < 1/2 CODD 1 < X < 1/2 x''pu 100 Sh XeA, DK

maxA = Sup A = 1/2

1. P. J. M ~ min A , Inf = 0 Xe to 1k Xet, P. J. XeA B . -1 < X < 0 Sh XeA DH -1 < X < 0 Sh XeA Dh 1. J. J. -1 < X < 0 N XeA Dh

· Fin II Min A, InfA = 0

 $A = \{ a_n / n_{eN} \}$   $a_1 = 1, a_{n_{f}} = \sqrt{a_{n_{f}}}$   $a_2 = \sqrt{3},$ 

7" por 1207 polo 150 n Oster polo Mirt = M=1

A 36127 a 100 non Non a,=1 , 1= a, < an

:11.3/18/20 N.2) 9, =1<2

 $1 \le a_n < 2 = 1 \le a_k < 2$  proprio n = k ript  $a_{k+1} = \sqrt{a_{n+2}} \le \sqrt{2+2}$ 

Jarr 2 13 = 1 pp 1 ak = 2

(A 1812) le 18/1 100 NON M=2

