Selle hong

MORKMBET NO: 2 (cccu No: 3)

1 More- CONU Mo: 1

ofter the Questions

SEQUENCE & SERIES

Ou 3

Clearly 1, 7, Z aun Cop

PROVED

Lut the numbers are que

Scanned with CamScanner

$$-12 - 121 - 121^2 = 131$$

numbus au

for
$$a=-1$$
 & $1=-3$
number au

numbers au
$$\frac{4}{3}$$
, -1 , $\frac{3}{4}$

Mustpy 2 divide by 9

$$= \frac{7}{9} \left(\frac{10 + 10^{2} + 10^{3} + - - n + 4n}{1 + 1 - n + 10} \right) - \left(\frac{1 + 1 + 1 - n + 10}{1 + 1 - n + 10} \right)$$

$$= \frac{7}{9} \left(\frac{10}{10 - 1} \right) - n \right]$$

$$= \frac{7}{9} \left(\frac{10}{10 - 1} \right) - \frac{10}{10 - 1}$$

$$= \frac{7}{9} \left(\frac{10^{n+1} - 10 - 9n}{10 - 10} \right)$$

$$=\frac{1}{9}\left(\frac{10^{1+1}-10-9n}{9}\right)$$

On 4 4 hou a=1 2 b=256

2 n=3

luter the Mumber, au Gi, oz, G,

A=4

G1 = as' = 1(4) = 4

92= au2= 1/412=18

93- au3 = 1/43= 84

i. In three Cris au 4, 16, 64 Ars

One 5 = Sivan A-M = 10 2 G.M = 8

$$\frac{1}{2} \frac{1}{3} = 10 \quad \text{g} \quad \sqrt{ab} = 9$$

$$= 10 \quad 0 + b = 20 \quad \text{g} \quad ab = 64$$

$$= 10 \quad 0 \quad (20 - a) = 64$$

$$= 10 \quad 0 \quad (20 - a) = 64$$

$$= 10 \quad 0 \quad (20 - a) = 64$$

$$= \frac{\alpha^2 - 20\alpha + 64 = 0}{(\alpha - 16)(\alpha - 4) = 0}$$

$$a = 16$$
 (cm) $a = 4$
 $b = 4$ $b = 16$

= the few numbers are 1684 (60) 4218 A

direct their equations

$$= \alpha (4-1) = 9$$

=> (a=3): fry form sombers au 3,-6, 12, -24

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$$\frac{Rny}{=} \frac{(ab+b(+cd)^2)^2}{= (a^2x + a^2x^3 + a^2x^5)^2}$$

$$= a^2x (1+x^2+x^4)^2$$

$$= a^4x^2(1+x^2+x^4)^2$$

Ont 9. Siven GP
$$3, \frac{2}{5}, \frac{2}{5}, \frac{3}{4}, ---$$

hey $q=3$ 2 $4=\frac{1}{2}$

Since $5n=\frac{3069}{512}$

$$\frac{3069}{5712} = 3\left[\frac{1-(\frac{1}{2})^{n}}{1-\frac{1}{2}}\right]$$

$$\frac{3069}{5712} = 3\left[\frac{1-(\frac{1}{2})^{n}}{\frac{1}{2}}\right]$$

$$\frac{3069}{5712} = 6\left[1-(\frac{1}{2})^{n}\right]$$

$$= \frac{3069}{5712\times6} = 1-(\frac{1}{2})^{n}$$

$$= \frac{3069}{5712\times6} = 1-(\frac{1}{2})^{n}$$

$$= \frac{1}{2} = \frac{3069}{3072}$$

$$= \frac{3}{3072}$$

$$= \frac{1}{2} = \frac{3}{1029}$$

$$= \frac{1}{2} = \frac{1}{1029}$$

$$= \frac{1}{2} = \frac{1}{1029}$$

=1 [n=10/ An

anden are term in ap au

$$91un$$
 $5um = 56$
 $a + au + au^2 = 56$
 $a(1+1+1^2) = 58 - -0$

According to any a-1, as-7, as-7, as-7, as-1 auin 4.1

$$= 1$$

$$\alpha - 2\alpha + \alpha - \beta$$

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put 1=1/2 15 eq(1)

$$a=32$$

.- Mos au 8, 16, 32

(de) Mos au 32, 16, 8

Ans

$$\frac{a+b+2\sqrt{ab}}{a+b-2\sqrt{ab}} = \frac{m+n}{m-n}$$

$$\frac{\sqrt{\sqrt{a}+\sqrt{b}}^2}{(\sqrt{a}-\sqrt{b})^2} = \frac{m+n}{m-n}$$

$$\frac{\sqrt{a}+\sqrt{b}}{\sqrt{a}-\sqrt{b}} = \pm \frac{\sqrt{m+n}}{\sqrt{m-n}}$$

$$(\sqrt{a} + \sqrt{b}) + (\sqrt{a} - \sqrt{b}) = \pm \sqrt{\sqrt{m+n}} + \sqrt{m-n}$$
 $(\sqrt{a} + \sqrt{b}) - (\sqrt{a} - \sqrt{b}) = \pm \sqrt{\sqrt{m+n}} - \sqrt{m-n}$

$$\frac{2J_{9}}{\sqrt{2J_{5}}} = \pm \left(\sqrt{\frac{5m+n}{m+n}} + \sqrt{\frac{5m-n}{m-n}} \right)$$
[Maling bosh sides]

$$= \frac{1}{3} = \frac{(m+n)}{(m+n)} + 2\sqrt{m^2-n^2}$$

$$\frac{1}{(m+n)} + \frac{1}{(m-n)} - 2\sqrt{m^2-n^2}$$

$$= \frac{1}{8} = \frac{2m+2\sqrt{m+-m^2}}{2m-2\sqrt{m^2-n^2}}$$

$$\Rightarrow q = \left(m + \sqrt{m^2 - n^2}\right) : \left(m - \sqrt{m^2 - n^2}\right) \xrightarrow{g}$$

Our
$$\frac{12-a}{a-by} = \frac{b+cy}{b-cy} = \frac{c+dy}{c-dy}$$
Consider

$$\frac{a+by}{a-by} = \frac{b+cx}{b-cx}$$

$$\frac{2b^2x - dan}{b^2 - a}$$

$$\frac{b+cy}{b-cy} = \frac{C+dy}{c-dy}$$