



المادة : الرياضيات	1
الشعبة : ع . د	3 :

$$\left. \begin{aligned} (1) \dots 0 &= 4 + \alpha + 8\alpha^2 + 4\alpha^4 \\ (2) \dots 0 &= 7 + \alpha + 7\alpha^2 + \alpha^3 - \alpha^4 \end{aligned} \right\} \Leftrightarrow 0 = (\alpha^4 + \dots)$$

$$1 - \alpha = \alpha \quad (1)$$

$$. ( \quad ) (2) \quad (1-)$$

$$- = 1$$

$$(1) \dots : (\gamma + \beta + \alpha)(\gamma + \beta + \alpha) = (\gamma + \beta + \alpha) \quad (2)$$

$$(\gamma + \beta + \alpha)(\gamma + \beta + \alpha) = (\gamma + \beta + \alpha) :$$

$$(II) \dots \gamma + (\gamma + \beta)^2 + (\beta + \alpha)^3 = \alpha$$

$$: (II) (I)$$

$$\left. \begin{aligned} 1 = \alpha \\ 4 - 7 = \alpha \\ 4 - = \beta \end{aligned} \right\} : \left. \begin{aligned} 1 = \alpha \\ + 4 - = \beta + \alpha \\ 8 - 7 = \gamma + \beta \\ 7 + 4 = \gamma \end{aligned} \right\}$$

$$0 = ( \quad )^*$$

$$(4 - 7 + 4 - 2)(\gamma + \beta + \alpha) = (\gamma + \beta + \alpha)$$

$$0 = (4 - 7 + 4 - 2)(\gamma + \beta + \alpha) \Leftrightarrow 0 = ( \quad )$$

$$0 = (4 - 7 + 4 - 2 \vee 0 = \gamma + \beta + \alpha) \Leftrightarrow$$

$$(3) \dots 0 = 4 - 7 + 4 - 2 \vee - = \gamma + \beta + \alpha \Leftrightarrow$$

$$\Delta \quad (3)$$

$$(0.25) \dots 4 + 3 - = (4 - 7)(1 - 2) = \Delta :$$

$$4 + 3 - = \Delta$$

:

$$2 \delta \ni ( \quad ) / \Delta = 2\delta + \delta$$

$$2 + 2 - 2 = 2\delta$$

$$\left. \begin{aligned} \overline{2(4) + 2(3 -)} = 2 + 2 \\ 3 - = 2 + 2 \\ 2 = \end{aligned} \right\} \Leftrightarrow \left. \begin{aligned} |\Delta| = |2\delta| \\ 3 - = 2 - 2 \\ 4 = 2 \end{aligned} \right\} \Leftrightarrow \Delta = 2\delta$$

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$$\left. \begin{aligned} (1) \dots & 5 = 2^2 + 2^2 \\ ( ) \dots & 3 = 2^2 - 2^2 \\ ( ) \dots & 2 = \end{aligned} \right\}$$

$$1 = 2^2 \quad 2 = 2^2 \quad 2 : \quad ( ) \quad ( \angle )$$

$$1 - = \quad \vee \quad 1 = \quad :$$

$$2 = ( ) \quad 1 =$$

$$2 - = ( ) \quad 1 - =$$

$$( 0.5) \dots \dots \dots \quad 2 - 1 - = \delta \quad 2 + 1 = \delta :$$

.(3)

$$\begin{matrix} 3 & 2 \\ 2-1-2 = & 2+1+2 = \end{matrix} \quad \begin{matrix} 3 \\ 2 \end{matrix}$$

$$( 0.5) \dots \dots \dots \quad 2-1 = \quad 2+3 =$$

$$2-1 = \quad 2+3 = \quad - = \quad 0 = ( ) \quad :$$

$\partial (3)$

$$\begin{matrix} 3 & 2 & 1 \\ \cdot & & \\ (2- & 1) & (2 & 3) & (1- & 0) \end{matrix} \quad \begin{matrix} \partial \\ \partial \\ \partial \end{matrix}$$

$$18 = 2^2(1+2) + 2^2(0-3) = 2^2 \quad 1 :$$

$$2 = 2^2(1+2-) + 2^2(0-1) = 2^2 \quad 1$$

$$20 = 2^2(2-2-) + 2^2(3-1) = 2^2$$

$$( 0.5) \dots \dots \dots \quad \partial \quad \partial \quad 2 \quad = 2 \quad 1 + 2 \quad 1$$

$\partial$   $-$

.( )

$$\begin{matrix} [ \text{ج} ] & [ \text{ج} ] & \partial & \text{ج} & \partial \\ & & & [ \text{ج} ] & \end{matrix}$$

$$\frac{[ \text{ج} ]}{2} = \left( \frac{+}{2} - \frac{+}{2} \right) \omega : \quad [ \text{ج} ] \quad \omega$$

$$\bar{.5}_3 = \frac{\overline{20}_3}{2} \quad (0 \ 2) \omega$$

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$$^2(\bar{5}_3) = ^2(0- ) + ^2(2- ) : ( )$$

( 0.25)..... .

$$5 = ^2 + ^2(2- )$$

( 12):

$$\frac{1}{6+ 5-^2} = ( ) :$$

( 3)..... : (1

{3 2} - R

$$(3 = \sqrt{2} = ) \Leftrightarrow 0 = 6+ 5-^2$$

$\infty+$	3	2	$\infty-$	
	+	-	+	$6+ 5-^2$

$$\infty+ \leftarrow (6+ 5-^2) \quad 0 = ( ) \quad \infty+ \leftarrow |$$

$$\infty+ = \frac{1}{6+ 5-^2} \quad \leftarrow \quad = ( ) \quad \leftarrow$$

$$0 \leftarrow (6+ 5-^2)$$

$$\infty- = \frac{1}{6+ 5-^2} \quad \leftarrow \quad = ( ) \quad \leftarrow$$

$$0 \leftarrow (6+ 5-^2)$$

$$\infty- = \frac{1}{6+ 5-^2} \quad \leftarrow \quad = ( ) \quad \leftarrow$$

$$0 \leftarrow (6+ 5-^2)$$

$$0 \leftarrow (6+ 5-^2) \quad \infty+ = \frac{1}{6+ 5-^2} \quad \leftarrow \quad = ( ) \quad \leftarrow$$

$$\frac{5+ 2-}{^2(6+ 5-^2)} = ( )$$

$$\frac{5}{2} = \Leftrightarrow 0 = ( )$$

$$\frac{5}{2} < \Leftrightarrow 0 > ( )$$

$$\frac{5}{2} > \Leftrightarrow 0 < ( )$$

$$] \frac{5}{2} \quad 2 [ \quad ] 2 \quad \infty- [$$

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$$] \infty+ \quad 3 [ \quad ] 3 \quad \frac{5}{2} [$$

:

$\infty+$	3	$\frac{5}{2}$	2	$\infty-$	
-		-	+	+	( )
	$\infty+$	4-		$\infty+$	( )
0		$\infty-$	$\infty-$	0	

: \* (2)

( ) ن ( ) ن :

$$\frac{5}{2} = : ( ) \quad \text{ن} \quad \text{ن}$$

( 0.5).....

$$-5 = \left. \begin{array}{l} \\ \\ \end{array} \right\} : \quad \left. \begin{array}{l} \frac{5}{2} = \frac{+}{2} \\ \\ \end{array} \right\} :$$

: ( ) •  
•

.( )

$$-5 = \left. \begin{array}{l} \\ \\ \end{array} \right\} : \text{إذن :}$$

$$\frac{1}{6+5^{-2}} = :$$

$$\frac{1}{6+5^{-2}} = : \quad \frac{1}{6+(-5)5^{-2}(-5)} =$$

( 0.25)..... ( ) ( )

( ) ( )

: ( ) ( )

( 0.25)..... ( )  $\frac{5}{2} = : ( )$

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$: 4 =_0$  ( ) (Δ) (3)

$.(4) + (4 - ) (4) = : (Δ)$

$\frac{3}{4} - = \frac{5+(4)2-}{^2(2)} = (4)$   $\frac{1}{2} = \frac{1}{6+20-16} = (4) :$

( 0.75).....  $\frac{7}{2} + \frac{3}{4} - = : (Δ)$   $\frac{1}{2} + (4 - ) \frac{3}{4} - = : (Δ)$

( 1)..... : ( )

6 ( )

$.3 = 2 = 0 =$

$(\frac{1}{6} 0)$  ( ) ( )

( 1.5)..... **.8/8** ( )

( 0.5)..... ] ∞+ 3 [ (4

] ∞+ 3 [ ( )

.] ∞+ 0 [

<sup>1-</sup> ] ∞+ 0[ ] ∞+ 3 [ " "

] ∞+ 3 [ ] ∞+ 0 [ <sup>1-</sup>

( 0.75).....  $.(1^-)$  <sup>1-</sup>

∞+	0	
-		$( )^{1-}$
	∞+	$( )^{1-}$
3		

$(1^-) ( )$

$(1^-)$

$(\frac{1}{2})^{1-ها} + (\frac{1}{2}-س) (\frac{1}{2})^{1-ها} = : ) Δ)$

$\frac{1}{2} = ( ) \Leftrightarrow \frac{1}{2} = ( ) \Leftrightarrow = (\frac{1}{2})^{1-}$

$\frac{1}{2}$

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$$4 = \Leftrightarrow \frac{1}{2} = ( )$$

$$( ) \frac{4}{3} = \frac{1}{\frac{3}{4}} = \frac{1}{(4)} = \frac{1}{(4)} = \left(\frac{1}{2}\right)^{1-}$$

$$4 + \left(\frac{1}{2}\right) \frac{4}{3} = ( ) \Delta :$$

$$\frac{14}{3} + \frac{4}{3} = ( ) \Delta$$

$$(1) \dots \dots \dots : \partial (5)$$

$$\frac{1}{2-} + \frac{1}{3-} = ( ) \{3 \ 2\} - \mathbb{R} \ni \forall$$

$$\frac{(12+ 3)- ( +1)}{(2- ) (3- )} = \frac{1}{2-} + \frac{1}{3-} = ( ) :$$

$$\left. \begin{array}{l} 1- = 1 \\ 1+ = \end{array} \right\} : \left. \begin{array}{l} 0 = +1 \\ 1- = 2+3 \end{array} \right\} :$$

$$\frac{1}{2-} + \frac{1}{3-} = ( ) \{3 \ 2\} - \mathbb{R} \ni \forall :$$

$$(1) \dots \dots \dots : \text{ن} *$$

$$3 < \mathbb{N} \ni \text{ن} \quad (\text{ن}) + \dots + (6) + (5) + (4) = \text{ن}$$

$$\begin{array}{l} \cancel{\frac{1}{2}} + \frac{1}{1} = (4) \\ \cancel{\frac{1}{3}} + \frac{1}{2} = (5) \\ \cancel{\frac{1}{4}} + \frac{1}{3} = (6) \\ \cancel{\frac{1}{5}} + \frac{1}{4} = (7) \\ \vdots \\ \frac{1}{2-\text{ن}} + \cancel{\frac{1}{3-\text{ن}}} = (\text{ن}) \end{array}$$

$$\frac{1}{2-\text{ن}} + 1 - = (\text{ن}) + \dots + (6) + (5) + (4)$$

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$$\frac{1}{2-n} + 1 = \dots$$

( 0.5)..... :  $\infty \leftarrow n$

$$\left( 0 < \frac{1}{2-n} \right) \quad 1 = \left[ \frac{1}{2-n} + 1 \right]_{\infty \leftarrow n} = \dots_{\infty \leftarrow n}$$