

:	2
. :	3 :

(04 نقط): _____

(1) ثبات : $\forall n \in \mathbb{N} : 0 < n$

▪ من أجل $n = 0$: $0 = 2$ و $0 < 0$.

▪ $0 < 1 + 0$

$$0 < 3 + \alpha 2 \Leftrightarrow 0 <$$

$0 < n : \forall n \in \mathbb{N}$

(0,5).....

$$\frac{3}{1-\alpha 2} + n = n : \forall n \in \mathbb{N} \quad (2)$$

$$\frac{3}{1-\alpha 2} + 1+n = 1+n$$

$$\frac{3}{1-\alpha 2} + 3 + n \alpha 2 =$$

$$\left(\frac{3}{1-\alpha 2} + n\right) \alpha 2 =$$

$$(01) \dots \frac{1+\alpha 4}{1-\alpha 2} = 0$$

$$\alpha 2 =$$

$$(n) \quad n \alpha 2 = 1+n$$

(0,5).....

$$n (\alpha 2) \frac{1+\alpha 4}{1-\alpha 2} = n : \forall n \in \mathbb{N} \quad (3)$$

(0,5).....

$$\frac{3}{1-\alpha 2} - n (\alpha 2) \frac{1+\alpha 4}{1-\alpha 2} = n : \forall n \in \mathbb{N}$$

(0,5).....

$$4 = \frac{3-n}{1-\alpha 2} \Leftrightarrow 4 = n \quad \infty \leftarrow n \quad (4)$$

$$\frac{1}{8} = \alpha \Leftrightarrow$$

$$n + \dots + 1 + 0 = n$$

$$\frac{3}{1-\alpha 2} - n + \dots + \frac{3}{1-\alpha 2} - 1 + \frac{3}{1-\alpha 2} - 0 =$$

$$\frac{(1+n)3}{1-\alpha 2} - \left(\frac{1-1+n(\alpha 2)}{1-\alpha 2}\right) \frac{(1+\alpha 4)}{1-\alpha 2} =$$

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(01)..... $\frac{(1+\alpha)3}{1-\alpha 2} - (1-\alpha 2)^{-1+\alpha} \frac{(1+\alpha 4)}{2(1-\alpha 2)} =$
 .(04) : _____

(*)..... $0 = (8 + 4 + 2)(4 + (1) 2 - 2)$
 .(1)..... $0 = 4 + (1) 2 - 2$
 .(2)..... $0 = 8 + 4 + 2$ } $\Leftrightarrow (*)$

: (1) _____

$2(-1) = \Delta$

(0,5).....

(0,25 x 2).....

$2 = 2$

$2 = 1$

: (2) _____

(0,5).....

$2(2) = \Delta$

(0,25 x 2).....

$2 + 2 - = 4$

$2 - 2 - = 3$

. 4 3 2 1 :

(0 2) (2 0) \in (2- 2-) (2 2-) (2

. * $\exists \beta$ * $\exists \alpha$. $\beta + \alpha = ()$

$\left. \begin{matrix} 1 \\ 2 \end{matrix} \right\} \begin{matrix} = \beta + 4 \\ = \beta + 3 \end{matrix} \alpha \right\} \Leftrightarrow \left. \begin{matrix} 1 \\ 2 \end{matrix} \right\} \begin{matrix} = (4 \\ = (3 \end{matrix}) \right\}$

$\left. \begin{matrix} 2 \\ 3 \\ 4 \end{matrix} \right\} \begin{matrix} - 1 \\ \alpha - 4 \\ \alpha - 1 \end{matrix} = \alpha \\ = \beta \end{matrix} \right\}$

(01).....

$2+2 = \beta$

$\frac{1}{2} + \frac{1}{2} = \alpha$

$[\pi 2] \frac{\pi}{4} \equiv (\alpha)$

$\frac{\sqrt{2}}{2} = |\alpha|$

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$$4 - \frac{\beta}{\alpha - 1} = 0 \quad / \quad (0) \omega$$

(01).....

(0 4-)ω

.(12) : _____

$$\frac{2+}{2-2^2} \text{ ق} = ()$$

:

(0,5)

$$.]\infty + , \infty - [=$$

(0,5)

$$\infty + = ()_{\infty + \leftarrow}$$

$$\infty + = ()_{\infty \leftarrow}$$

(01).....

$$\frac{1-s}{2+s2^{-2}} \text{ ق} = () : \mathfrak{R} \ni \forall$$

(0,5).....

:

∞ +	1	∞ -	
+	0	-	()
∞ +	1	∞ +	()

(2

$$1 = (+ ())_{\infty \leftarrow}$$

$$1 - = \frac{()}{\infty \leftarrow}$$

(01).....

(∞ -)

$$1 + - =$$

$$1 - = (- ())_{\infty + \leftarrow}$$

$$1 = \frac{()}{\infty + \leftarrow}$$

(01).....

.(∞ +)

$$1 - =$$

(01)..... ()

$$1 = : (\Delta)$$

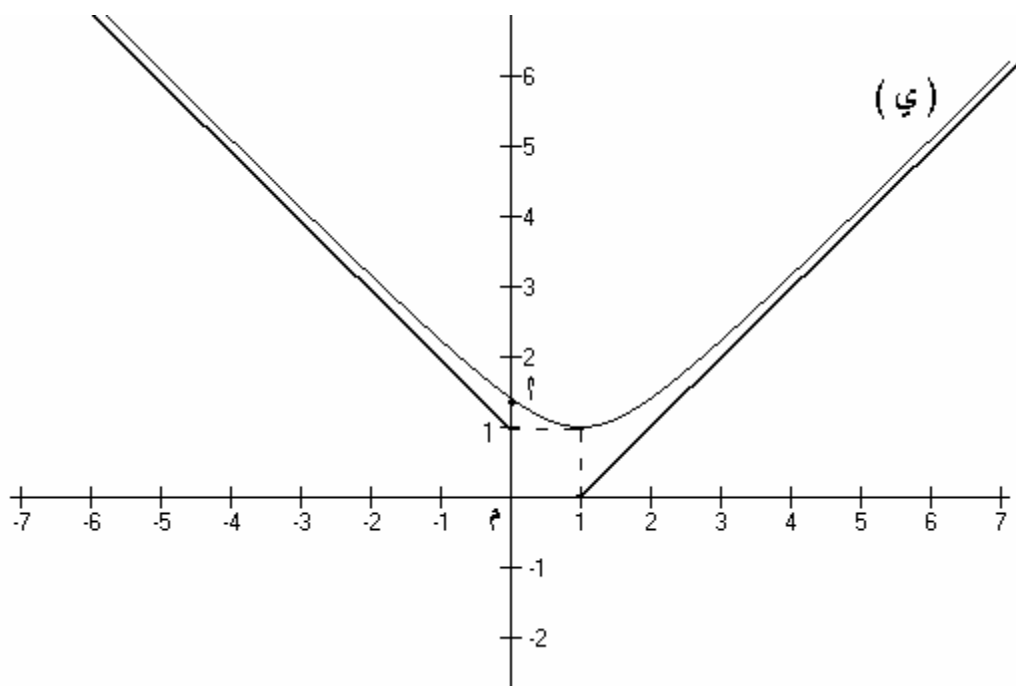
$$() = (2+ -) \quad (3)$$

$$\frac{\bar{2}}{2} \text{ ق} - = \frac{1-}{2+ 2^{-2}} \text{ قس} \Leftrightarrow \frac{\bar{2}}{2} \text{ ق} - = (0) \quad (4)$$

$$1 > \quad 2+ \quad 2 - 2^2 = 2^2 (1 -) 2 \Leftrightarrow$$

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(01)..... $1 > 0 = 2^{-2} \Leftrightarrow$
 $(\sqrt{2} \text{ ق } 0) \mid 0 = \Leftrightarrow$
 $(1 -)(\theta) = : () (5)$
 (0,5)..... (ي) $(\theta \text{ ق }) \cdot \left[\pi, \frac{\pi 3}{4} \right] \cup \left[\frac{\pi}{4}, \pi - \right] \ni \theta \bullet$
 (0,5)..... () $(\theta \text{ ق }) : \left] \frac{\pi 3}{4}, \frac{\pi}{4} \right[\ni \theta \bullet$
 (0,5)..... () = (-) : $\Re \ni - \Re \ni \forall$
 $\cdot () = () :]\infty + , 0] \ni$
 (02)..... () -



:	2
. :	3 :

(02).....

(Γ) -

