

1		
:	ع.ط.ح:	3:

:

: $\exists \forall$

(0.5) 9 $^3(2 +) + ^3(1 +) : ()$

(0.5) 9 $9 = ^3 2 + ^3 1 + ^3 0 : (0)$

(1+) ()

(0.5) 9 $^3(3+) + ^3(2+) + ^3(1+) \Leftrightarrow (1+)$

(1.5) $27 + 27 + ^2 9 + ^3 + ^3(2+) + ^3(1+) \Leftrightarrow (1+)$

خ $(3 + ك)^3 9 + (2 + ك)^3 + (1 + ك)^3 ك \Leftrightarrow (1 + ك)$
 $\underbrace{\hspace{10em}}_9 \quad \underbrace{\hspace{10em}}_9$

(1+)

: () : $\exists \forall$

(1) 9 $^2(2+) + ^3(1+) + ^3$

:

$6 + 8 = 1 - \alpha 2 + ^2 \alpha \Leftrightarrow 6 + 8 = ^2(+ \alpha)$

$\left. \begin{array}{l} 3 = -\alpha \text{ أو } 3 = \alpha \\ 3 = \alpha \end{array} \right\} \Leftrightarrow \left. \begin{array}{l} 9 = ^2 \alpha \\ 3 = \alpha \end{array} \right\} \Leftrightarrow \left. \begin{array}{l} 8 = 1 - ^2 \alpha \\ 6 = \alpha 2 \end{array} \right\} \Leftrightarrow$

(0.5) $\boxed{3 = \alpha} \Leftrightarrow$

$0 = 2 - (3 + 1) - ^2 2$

$\rightarrow 4 - ^2 \delta = \Delta$

$(2 -) (2) 4 - ^2 (3 + 1) = \Delta$

(0.5) $6 + 8 = \Delta$

$+ 3 = \delta \Leftrightarrow 6 + 8 = ^2(+ 3) \Leftrightarrow 6 + 8 = ^2 \delta \Leftrightarrow \Delta = ^2 \delta$
 $\frac{-3 - 3 + 1}{4} = \Leftrightarrow \frac{\delta - -}{1 2} =$

(0.5) $\boxed{\frac{1}{2} + \frac{1 -}{2} =}$

$\frac{+ 3 + 3 + 1}{4} = \Leftrightarrow \frac{-\delta + -}{2} =$

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(0.5) $+ 1 =$

$$\bar{2}_3 = \left| \begin{array}{|c|} \hline \frac{\bar{2}_3}{2} \\ \hline \end{array} \right|$$

$$|ص'| > |ص''|$$

(0.5)..... $\frac{1}{2} + \frac{1-}{2} =_2$ $+1 =_1$

$$\bar{2}_3 = \left| \begin{array}{|c|} \hline 1 \\ \hline \end{array} \right| \quad +1 =_1$$

(0.5)..... $\pi \ 2 + \frac{\pi}{4} =_1 \theta$ ← $\left\{ \begin{array}{l} \frac{\bar{2}_3}{2} = \frac{1}{2} =_1 \theta \\ \frac{\bar{2}_3}{2} = \frac{1}{2} =_1 \theta \end{array} \right.$

$$\left[\frac{\pi}{4} \bar{2}_3 \right] =_1$$

$$\frac{\bar{2}_3}{2} = \left| \begin{array}{|c|} \hline 2 \\ \hline \end{array} \right| \quad \frac{1}{2} + \frac{1-}{2} =_2$$

(0.25)..... $\pi \ 2 + \frac{\pi 3}{4} =_2 \theta$ ← $\left\{ \begin{array}{l} \frac{\bar{2}_3 -}{2} =_2 \theta \\ \frac{\bar{2}_3}{2} =_2 \theta \end{array} \right.$

$$\left[\frac{\pi 3}{4} \bar{2}_3 \right] =_2$$

$$\left| \begin{array}{c} \theta \\ \theta - 1 \end{array} \right| = \frac{1}{2}$$

(0.25) $\left[\frac{\pi -}{2} \ 2 \right] = \frac{1}{2}$

$$(1 \ 1) \Leftrightarrow \left(\begin{array}{c} 1 \\ 1 \end{array} \right)$$

$$\left(\frac{1}{2} \ \frac{1-}{2} \right) \Leftrightarrow \left(\begin{array}{c} 1 \\ 2 \end{array} \right)$$

$$0 = \leftarrow \cdot \leftarrow \Leftrightarrow \leftarrow \perp \leftarrow \Leftrightarrow$$

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$$\left(\frac{1-}{2}\right) \leftarrow \left(\frac{1+}{1+}\right) \leftarrow$$

..... $\perp \leftarrow \leftarrow 0 = \frac{1}{2} + \frac{1-}{2} = \frac{(1)}{2} 1 + \frac{(1-)}{2} 1 = \overline{\text{م.أ.م.ب.}}$

(0.5)

:

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

(0.75).....] $\infty+$ 1 [\cup] 1 $\infty-$ [=

: _____

(0.25)..... $\infty+ = \frac{2}{\infty+}$ $\infty+$ = (س) $\infty+$ = $\frac{2}{\infty+}$ $\infty+$

(0.25)..... $\infty-$ = (س) $\infty-$ $\infty-$

(0.25)..... $\infty- = \frac{1-}{+0} =$ (س) $\infty-$ $\infty-$

(0.25)..... $\infty+ = \frac{1-}{-0} =$ (س) $\infty+$ $\infty+$

(0.25)..... (1 =)

: _____

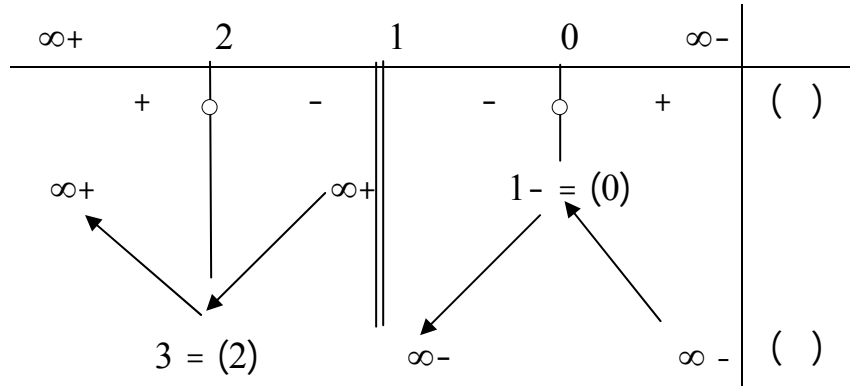
(1)..... $\frac{2-^2}{2(-1)} = () = \frac{(1-^2 -)}{2(-1)} 1 + (-1)(1+ 2-) = ()$

$$\left. \begin{matrix} 0 = \text{س} \\ \vee \\ 2 = \text{س} \end{matrix} \right\} \Leftrightarrow 0 = (\text{س})$$

(1) : () _____

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(1.5)..... :



$$\frac{1}{-1} + 1 = () \quad (3)$$

(1) :

1+	+ ²	-	- 1
	+ ²	-	
1-	0	0	

$\frac{1-}{-1} + = ()$

(0.5)

$$= 0 = \frac{1-}{-1} \text{ نها } | \leftarrow -1 \infty$$

$$(\Delta) \quad () \quad (4)$$

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

(1).....(\Delta) () 1 <

(\Delta) () 1 >

$$(1 \ 1) \ 1 \quad (5)$$

$$\left. \begin{aligned} 1+ &= \\ 1+ &= \end{aligned} \right\} \Leftrightarrow \left. \begin{aligned} 0 + &= \\ 0 + &= \end{aligned} \right\}$$

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

$$\frac{1+^{-2}}{-} = 1+ \Leftrightarrow$$

$$\frac{1+^2}{-} = \Leftrightarrow \frac{+1+^2}{-} = \Leftrightarrow$$

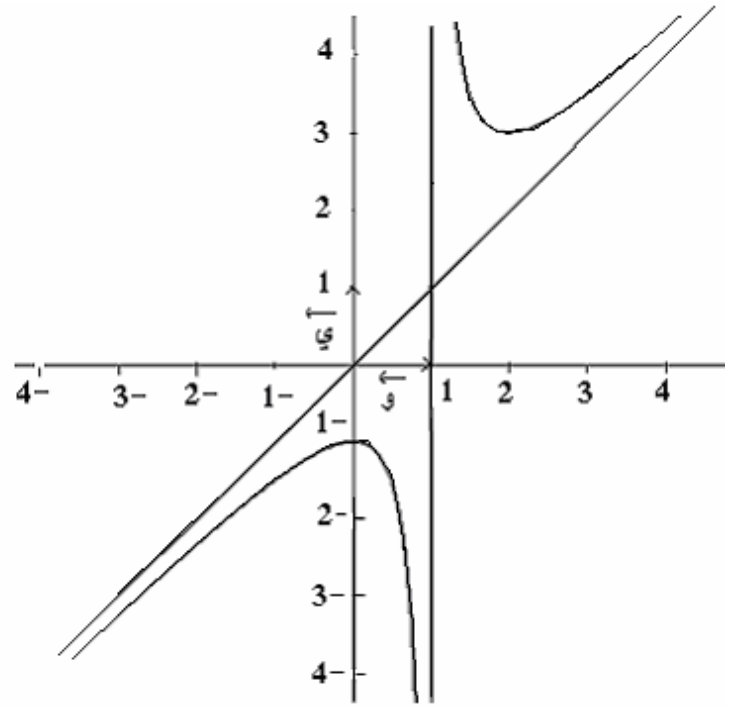
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(0.5)..... *؛ = $\frac{1+^2}{-} = ()$

() - = (-) *؛ ځ - *؛ ځ $\forall \Leftrightarrow$

(0.5)..... () - = $\left[\frac{(1+^2)}{-} \right] - = \frac{1+^2(-)-}{(-)-} = (-)$
(1 1) ^

(1.5): (6)



$0 = 1 + + (1 +)^{-2} :$ $\frac{0 = 1 + + -^{-2}}{0 = 1 + + -^{-2}}$ (7)

(0.5)..... $1^{-2} - = (-1)$
 $\frac{1^{-2}}{-1} =$
 () =
 = } \Leftrightarrow
 () =

		1
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$() = : ()$
 $0 =$
 $2 =$
 $(1).....$

$] 1- \infty-[\varepsilon$
 $1- =$
 $] 3 1-[\varepsilon$
 $3 =$
 $] \infty+ 3[\varepsilon$