

:	1
. . . + . :	3 :

حل التمرين الأول : (4) :

(0.5)..... $2 - = \Leftrightarrow 12 - 5 - =^2 (3 +) (1$

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

(0.5)..... $12 - 5 - = \Delta$

(0.5)... Δ $3 - 2 = 2 , 3 + 2 - = 1$

(1)..... $2 + 1 - = 2 , - 1 = 1$

. $(1 - \alpha , \alpha) ج , (2 , 1 -) , (1 - , 1) ا (3$

(1)..... $11 = \alpha$ ب ج ا ب ج (*)

$(\frac{1 + \alpha 3}{2} \frac{(1 - \alpha) 3}{2}) \alpha ه (*)$

(0.5).....

: (4) :

. $1 = 2 - 3 (1$

(0.5)..... $1 = (1) 2 - (1) 3 \Leftrightarrow 1 + 1 \times 2 = 3 :$

. $1 = 2 - 3 : (1 , 1)$

(0.5)..... (1) $(5 , 5) = (5 \times 1 , 5 \times 1)$

(1)..... $\{ _ \exists / (2 + 3 5 + 2) \} : (1)$

. $0 = 21 + 25 + ^2 6 \Leftrightarrow 4 = (2$

() $\frac{7-}{6} = 1 - = \Leftrightarrow$

(2)..... $(4 - , 1 -) = (,)$

$2 - 3 / 2 / 3 / / / (3$

$\{ 5 1 \} \exists 5 /$

(12) :

. $^2 + 2 - = ()$

] $\infty + , 0 [Y] 0 , \infty - [= ف (1$

$^2 - 2 = (-) \in - : \in \forall :$

$(^2 + 2 -) - =$

(1)..... () - =

:	1
... + . :	3 :

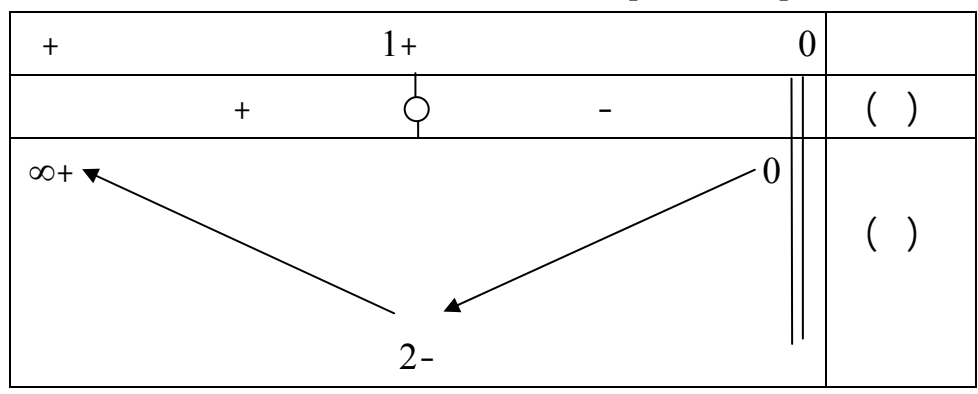
()
] ∞ + 0[: (2)

$0 = ()$, $\infty + = ()$

$0 \leftarrow$ $\infty + \leftarrow$
 $^2 = () :$

- . $0 > () :$ $0 > ^2 :$ $1 > ^2 > 0 ,] 1 0 [\exists$ -
- . $0 < () :$ $0 < ^2 :$ $1 < ^2 ,] \infty + 1 [\exists$ -

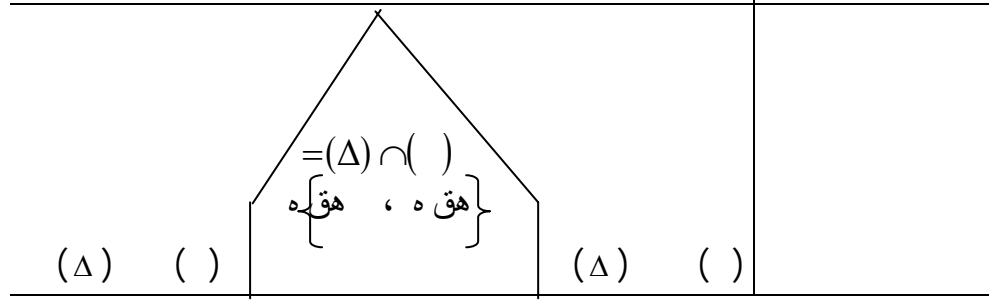
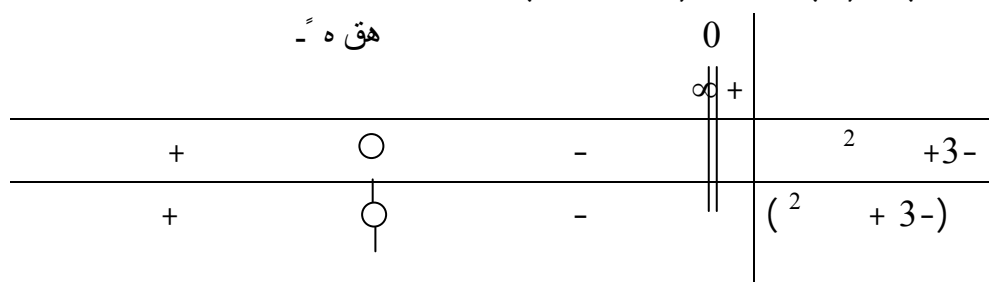
(2.5).....



(0.5)..... () () $\infty + = \frac{()}{()}$

$\infty + \leftarrow$
 $(^2 + 3-) = -()$ (3)

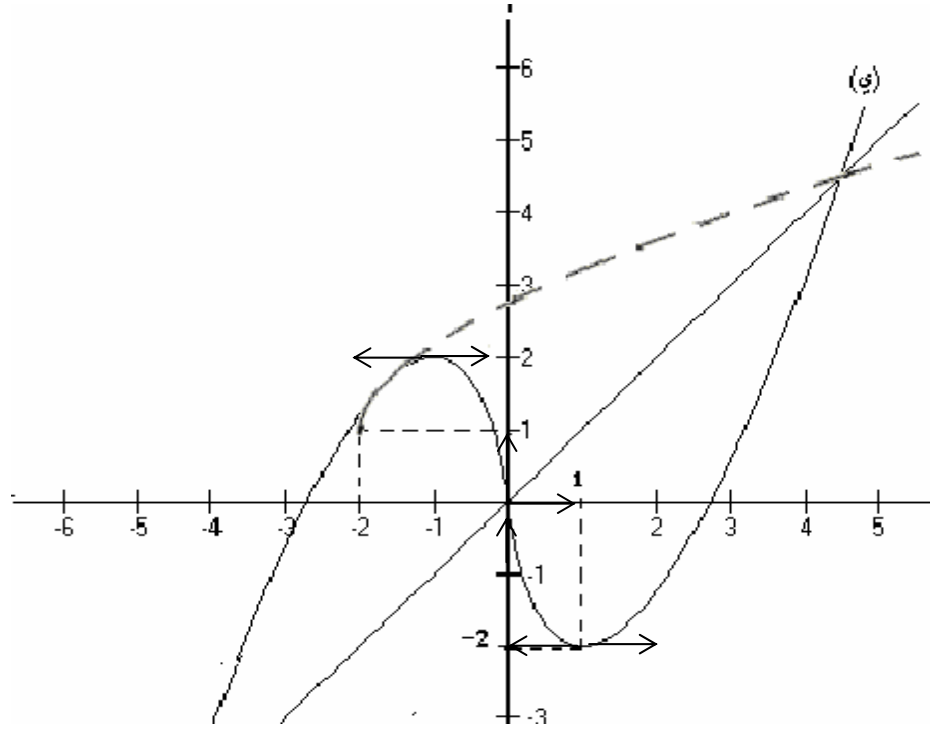
هق هـ -



(1).....

:	1
. . . + . :	3 :

(1.5).....()



$$] \infty + 2 - [] \infty + 1 [] \infty + 1 [\quad (4)$$

.(=)

() (γ) : (γ)

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

$$() \quad \int_2^{\infty} \frac{1}{2} - \quad = \quad \int_2^{\infty} \quad (5)$$

(1).....

$$(0.5)..... (3 \ 9 + 2 \circ + 15 -) = () \int_2^{\infty} + () [() -] \int_1^{\infty} =$$

$$^2 \quad | \quad | - | \quad | 2 = () \quad (6)$$

$$.] \infty + 0 [U] 0 , \infty - [=$$

() = 2 (-) | - | - | - | 2 = (-) ∇سوف : -سوف

(1)..... () ()

: ()

$$0 < \quad ^2 \quad - \quad 2 = ()$$

$$(0.5)..... \quad 0 > \quad ^2 \quad + \quad 2 - = ()$$

:	1
. . . + . :	3 :

: ()

() () () = () :] 0 ∞ - [∃

الترتيب لأن عا

()] ∞ 0 [∃

(ن1).....

زوجية .

(1.5)..... : رسم (ك)

