

$$\text{ا) (٢) نتجه بطريقتين} \leftarrow P \text{ قوة (س)} = \frac{\epsilon -}{\sqrt{\epsilon - \epsilon}} \text{ قوة (س)}$$

$$\leftarrow P \text{ قوة (س)} + \sqrt{\epsilon - \epsilon} \text{ قوة (س)} = \frac{\epsilon -}{\sqrt{\epsilon - \epsilon}}$$

$$\text{قوة (س)} = (\sqrt{\epsilon - \epsilon} + P) \text{ قوة (س)}$$

لكنه قوة (٠) = ٠

$$\text{قوة (س)} = \frac{\epsilon -}{(\sqrt{\epsilon - \epsilon} + P) \text{ قوة (س)}}$$

$$\text{قوة (س)} = \frac{\epsilon -}{(\epsilon + P) \times \epsilon} \leftarrow \epsilon = \frac{\epsilon -}{(\epsilon + P) \times \epsilon}$$

$$\epsilon - = 8 + P \times 8$$

$$1 \epsilon - = P \leftarrow 1 \epsilon - = P \times 8$$

$$\text{ب) (١) } \left\{ \frac{1}{\left(\frac{1}{\sqrt{3}} + 1\right) \sqrt{3}} \right\} \leftarrow \left\{ \frac{\sqrt{3}}{\left(\frac{1}{\sqrt{3}} + 1\right) \sqrt{3}} \right\}$$

$$\frac{1}{\sqrt{3}} + 1 = u \leftarrow \frac{1}{\sqrt{3}} = u - 1 \leftarrow \frac{1}{\sqrt{3}} = \frac{u - 1}{\sqrt{3}} \leftarrow \frac{1}{\sqrt{3}} = \frac{u - 1}{\sqrt{3}}$$

$$\left\{ \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}} \times \frac{1}{u} \right\} \leftarrow$$

$$\left\{ \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}u} \right\} = \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}u}$$

$$= \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}u} + \frac{1}{\sqrt{3}u} = \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}u} + \frac{1}{\sqrt{3}u}$$

$$\text{حل آخر: } \left\{ \frac{1}{(1 + \sqrt{3}) \sqrt{3}} \right\} = \left\{ \frac{\sqrt{3}}{(1 + \sqrt{3}) \sqrt{3}} \right\}$$

$$\frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u$$

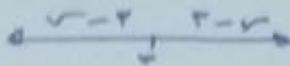
$$\left\{ \frac{1}{\sqrt{3}} \times \frac{1}{\sqrt{3}} \right\} = \frac{1}{\sqrt{3}} \leftarrow \frac{1}{\sqrt{3}} = \frac{1}{\sqrt{3}}$$

$$\frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u$$

$$\frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u \leftarrow \frac{1}{\sqrt{3}} = u$$

$$\frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}} = \frac{2}{\sqrt{3}} \leftarrow \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}} = \frac{2}{\sqrt{3}}$$

$$\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}} = 0 \leftarrow \frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}} = 0$$



$$\int_{\sqrt{3}}^1 \frac{\sqrt{13-\sqrt{x}}}{\sqrt{x}} dx \quad (ب)$$

$$\int_{\sqrt{3}}^1 \frac{\sqrt{(\sqrt{x}-3)}}{\sqrt{x}} dx =$$

$$\int_{\sqrt{3}}^1 \frac{1}{\sqrt{x}} \times \sqrt{\left(\frac{\sqrt{x}-3}{\sqrt{x}}\right)} dx =$$

$$\int_{\sqrt{3}}^1 \frac{1}{\sqrt{x}} \times \sqrt{\left(1 - \frac{3}{\sqrt{x}}\right)} dx =$$

$$\begin{aligned} \sqrt{3} &= \sqrt{3} & 1 &= \sqrt{1} \\ \sqrt{3} &= \sqrt{3} & \sqrt{3} &= \sqrt{3} \end{aligned}$$

$$\sqrt{3} - \frac{3}{\sqrt{3}} = \sqrt{3} \quad \leftarrow \quad 1 - \frac{3}{\sqrt{3}} = \sqrt{3}$$

$$\sqrt{3} - \frac{3}{\sqrt{3}} = \sqrt{3}$$

$$\int_{\sqrt{3}}^1 \frac{1}{\sqrt{x}} \times \sqrt{1 - \frac{3}{\sqrt{x}}} dx =$$

$$\int_{\sqrt{3}}^1 \frac{1}{\sqrt{x}} \times \sqrt{1 - \frac{3}{\sqrt{x}}} dx =$$

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$$\int_{\sqrt{3}}^1 \frac{1}{\sqrt{x}} \times \sqrt{1 - \frac{3}{\sqrt{x}}} dx =$$

$$\sqrt{5} = \frac{\delta \epsilon}{1 + \epsilon} \Leftrightarrow 1 + \epsilon = \frac{\delta \epsilon}{\sqrt{5}} \quad (س٢)$$

بافتراض  $\delta + \nu = 11 + \epsilon$

لعمري  $\delta = 1 + \epsilon$

$1 - \delta + \nu = (\nu) \epsilon \Leftrightarrow \delta + \nu = 1 + \epsilon$

لعمري  $\delta = 1 + \epsilon$

$1 - \delta = 1 - (1 + \epsilon) = -\epsilon$

$1 - \delta = -\epsilon$

$\sqrt{5} (1 - \delta) = \nu \Leftrightarrow 1 - \delta = \frac{\nu}{\sqrt{5}}$

$\delta + \nu - \delta = \nu$

لعمري  $\nu = 6$

$\nu = 6 = \delta + 3 - \delta = 3 - \delta$

$\delta - 9 = 3$

$\nu = 6 = \delta + 3 - \delta = 3 - \delta$

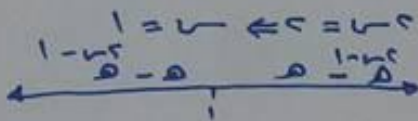
بعد ازالة  $\delta = 9 - 3 = 6$

$\delta - 9 = 3$

(ب) (١)  $\left\{ \frac{1 - \sqrt{5}}{2} \right\}$  جيب التعريف

$\frac{1 - \sqrt{5}}{2} = \delta$

$1 - \sqrt{5} = 2\delta$



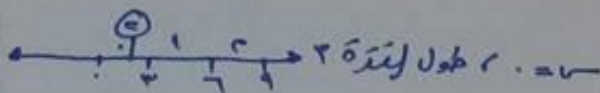
$\left\{ \frac{1 - \sqrt{5}}{2} \right\} + \sqrt{5} \left( \frac{1 - \sqrt{5}}{2} \right) =$

$\left[ \frac{1 - \sqrt{5}}{2} - \sqrt{5} \right] + \left[ \frac{1 - \sqrt{5}}{2} - \sqrt{5} \right] =$

$(\frac{1}{2} - \frac{\sqrt{5}}{2}) - (\frac{\sqrt{5}}{2} - \frac{5}{2}) + (\frac{1}{2} - \frac{\sqrt{5}}{2}) - (\frac{\sqrt{5}}{2} - \frac{5}{2}) =$

$\frac{1}{2} - \frac{\sqrt{5}}{2} - \frac{\sqrt{5}}{2} + \frac{5}{2} + \frac{1}{2} - \frac{\sqrt{5}}{2} - \frac{\sqrt{5}}{2} + \frac{5}{2} =$

$\delta - \frac{2\sqrt{5}}{2} + \frac{1}{2} =$



(ب) (٢)  $\left\{ \frac{1 + \sqrt{5}}{2} \right\}$  جيب التعريف

$\left\{ \frac{1 + \sqrt{5}}{2} \right\} + \sqrt{5} \left( \frac{1 + \sqrt{5}}{2} \right) =$

$(\frac{1}{2} + \frac{\sqrt{5}}{2}) - (\frac{\sqrt{5}}{2} + \frac{5}{2}) =$

$0 = 3 - 3 = 0$

$$P = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right) = \frac{1}{c+s} \left( \frac{c-s}{c+s} \right)$$

$$\frac{1}{c+s} = \frac{1}{c+s} \Rightarrow \frac{1}{c+s} = \frac{1}{c+s}$$

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$$P = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right) = \frac{1}{c+s} \left( \frac{c-s}{c+s} \right)$$

نريد جعل البسط  
قائم وحلوه لانه

$$c+s = s+c \Rightarrow c+s = s+c$$

$$\left[ \begin{matrix} c+s = s+c \\ \frac{c}{c+s} = \frac{s}{s+c} \end{matrix} \right] \leftarrow \text{هنا الحلون}$$

$$P = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right) = \frac{1}{c+s} \left( \frac{c-s}{c+s} \right)$$

$$P = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right) = \frac{1}{c+s} \left( \frac{c-s}{c+s} \right)$$

$$P = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right) = \frac{1}{c+s} \left( \frac{c-s}{c+s} \right)$$

$$\# \quad P - \frac{\pi + \epsilon}{(c+\pi)c} = \frac{1}{c+s} \left( \frac{c}{c+s} - \frac{s}{c+s} \right)$$

$$\frac{1}{c+s} = \frac{1}{c+s} \Rightarrow \frac{1}{c+s} = \frac{1}{c+s}$$

$$\frac{1}{c+s} = \frac{1}{c+s} \Rightarrow \frac{1}{c+s} = \frac{1}{c+s}$$

$$\frac{1}{c+s} = \frac{1}{c+s} \Rightarrow \frac{1}{c+s} = \frac{1}{c+s}$$

$$= \frac{1}{c+s} + \frac{1}{c+s} + \frac{1}{c+s}$$

$$= \frac{1}{c+s} + \frac{1}{c+s} + \frac{1}{c+s}$$

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$$= \frac{1}{c+s} + \frac{1}{c+s} + \frac{1}{c+s}$$

$$\boxed{\epsilon = \pi}$$

(١) د(١) = ل(١) /

٣ = ٢ + ١

١ = ٣

(٢) د(١) = ل(١) /

٣ = ٢ - ١

١ = ٢

١ = ٣

(٣) د(١) = ل(١) /

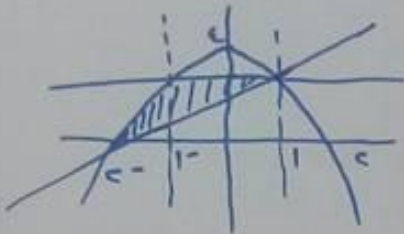
٢ + ١ = ٢ - ١

٠ = ٢ - ١ + ١

٠ = (١ - ١)(٢ + ١)

١ = ٣

$$\begin{aligned} & \int_{-1}^1 \frac{1}{x^2} dx = \int_{-1}^1 \frac{1}{x^2} dx = \left[ -\frac{1}{x} \right]_{-1}^1 = \left( -\frac{1}{1} \right) - \left( -\frac{1}{-1} \right) = -1 - 1 = -2 \end{aligned}$$



(١/٢ - ١ - ١) - (١/٢ - ١) + (٤/٢ - ١/٢ - ١) - (١/٢ - ١/٢ - ١) =

١/٢ + ١/٢ + ١ + ١/٢ + ١ + ١/٢ - ١/٢ + ١ =

١٩/٢ = ١١/٢ + ٤/٢ =

(٢) ١١ = ١٦ + ٤ + ١٨ - ٩

١٦ + ٩ + ١١ = (٤ + ١٦ + ٤) + (١ + ١٨ - ٩)

٣٦ = ٢٤ + (١ + ١٨)

٣ = ٩

٢ = ١٨

٥ = ٩

١ = (٢ + ١٦) / ٩ + (١ - ١) / ٢

المرتبة (١ - ١)

المرتبة (١ - ١)

المرتبة (١ - ١)

٢ - ٥ = ٩

٩ = ١٦ - ٥ =

٥ = ٢ - ٣ = ٩

٩ = ١٨ = ٩

١ = (١ - ١) / ٩ - (٢ + ١٦) / ١٦

(٣) ١ = ١/٢ + ١/٢ = ١/٢ + ١/٢ = ١

١ = ١/٢ + ١/٢ = ١/٢ + ١/٢ = ١

١ = ١/٢ + ١/٢ = ١/٢ + ١/٢ = ١

١ = ١/٢ + ١/٢ = ١/٢ + ١/٢ = ١

خط زائد سين

افضل بعد (د، هـ) عند استيعاب افضل  $\sqrt{c}$

$$\left| \frac{c - d \times 1 - d \times 1}{1 + 1} \right| = \sqrt{c}$$

$$|c - d - d| = \sqrt{c} \times \sqrt{c}$$

$$c - 2d = \pm \sqrt{c}$$

$$c - 2d = \sqrt{c} \quad \text{أو} \quad c - 2d = -\sqrt{c}$$

$$\text{Ⓐ} \quad \text{Ⓑ}$$

من (٢)  $\wedge = {}^c(5-5) + {}^c(3-3)$

$\wedge = {}^c(5-4) + {}^c(3-2) \iff (2, 1)$

عوضاً عن  $d >$

Ⓐ  $\wedge = {}^c(5-4) + {}^c((6+5)-2)$

$\wedge = {}^c(5-4) + {}^c(5-2)$

$\wedge = {}^c5 + 58 - 16 + {}^c5 + 58 + 16$

$\wedge = 2c + {}^c5c$

${}^c5c = c - c \iff c = c$

Ⓒ  $\wedge = {}^c(5-2) + {}^c((c-5)-3)$

$\wedge = {}^c(5-4) + {}^c(5-4)$

$\wedge = {}^c(5-4) \iff c$

$c = {}^c(5-4)$

$c \pm c = 5 - c$

$c = c - c = 5 - c$

$(6, 4) \iff c = d \iff 6 = 4$

$(5, 0) \iff c = d \iff 5 = 0$

سادلة Ⓓ  $\wedge = {}^c(7-5) + {}^c(4-3)$

سادلة Ⓔ  $\wedge = {}^c(c-5) + {}^c(0-3)$

من (ب) ارسمه ليرى ان  $d = c$

مبتدئين ليرى ان  $d = c$

$3 = 2 + 1$

$3 = 2 + 1 = 2 + 1 = 3$

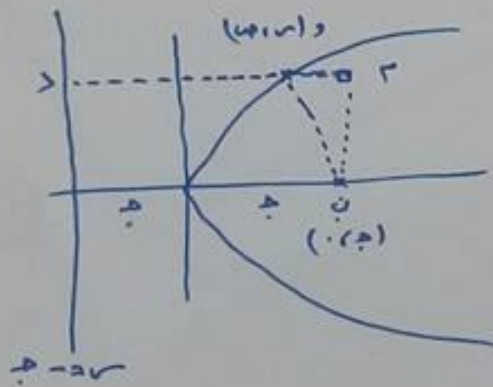
نكتة  $3 = 2 + 1 = 2 + 1 = 3$

$3 = 2 \iff$

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

$\iff 3 = 2 \iff 3 = 2$

$\iff 3 = 2 \iff 3 = 2$



انتهت الامتحان