

رياضيات الثاني عشر علمي

اختبار الوحدة الخامسة (التكامل المحدود وتطبيقاته)

مراجعات دفعة ٢٠٢٢

إعداد: أ. هدى أسامة فرج

اختبار الوحدة الخامسة (التكامل المحدود وتطبيقاته)
 صراحيات - دفة 2004

1) في $\int_0^1 x^p dx$ للجزئية المنتظمة $[0, p]$ إذا كانت الفترة الجزئية

الخاصة هي $[0, 2, 6, 0, 6]$ فإنه قيمة $\int_0^1 x^p dx$ على الترتيب

- 4 - 39 - 1
 5 - 1.66
 6 - 1.66
 7 - 1.66
 8 - 1.66

2) قيمة $\int_0^1 (x - \frac{1}{x}) dx = 0.75$

- 4
 5
 6
 7
 8

3) إذا كان $\int_0^1 x^p dx = 0$ فإن $\int_0^1 \frac{1}{x+p} dx + \int_0^1 x^p dx = \int_0^1 \frac{1}{x+p} dx$

وكان $\int_0^1 x^p dx = \frac{1}{p+1}$ فإن قيمة p ؟

- 2
 3
 4
 5
 6

4) إذا كان $\int_0^1 x^p dx = \frac{1}{6}$ فإن $\int_0^1 x^p dx = \frac{1}{6}$

فإنه قيمة $\int_0^1 x^p dx = 0.75$

- 3 - 3
 4
 5
 6
 7

⑤ $\lim_{n \rightarrow \infty} (n-1)^n = 0$. فإن قيمة n هي

- (A) $\frac{3}{2}$
 (B) $\frac{2}{3}$
 (C) $\frac{3}{4}$
 (D) $\frac{4}{3}$

⑥ إذا كان $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = p$ ، فإن $\lim_{n \rightarrow \infty} \frac{a_n + 1}{b_n + 1} = p$ ، وكان

- (A) 1-
 (B) 1
 (C) 2
 (D) 2-

⑦ إذا كان $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = 0$ ، فإن $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = 0$ ، فإن

- (A) صفر
 (B) 11
 (C) 0
 (D) 1

⑧ قيمة $\lim_{n \rightarrow \infty} \sqrt[n]{n^2 + 1} = 1$ ، فإن

- (A) 0
 (B) 2
 (C) 1
 (D) 2

⑨ إذا كان $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = 0$ ، فإن $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = 0$ ، وكان

- (A) 3
 (B) 7
 (C) 12
 (D) 14

① إذا كان N عدد صحيحاً على الفترة $[301]$ وكان N عددًا زوجيًا

$$\frac{N^2 - 0}{N^2} - 2 = (N^6 N^6) \text{ حيث } [301]$$

$$\text{فإن قيمة } \int_1^2 (N^6)^2 \text{ هي}$$

- Ⓐ ٣٠٥ Ⓑ ٣٠٠ Ⓒ ٣٠٥ Ⓓ ٧

② إذا كان N عددًا زوجيًا $\int_1^2 (N^6)^2 = 0$ ، فإن

$$\int_1^2 (N^6)^2 = 0$$

- Ⓐ $\frac{1}{2}$ Ⓑ $\frac{3}{2}$ Ⓒ $\frac{1}{2}$ Ⓓ $\frac{3}{2}$

③ إذا كان N عددًا زوجيًا $\int_1^3 (N^6)^2 = 24$ ، فإن

$$\int_1^3 (N^6)^2 = 24 \quad \int_1^3 (N^6)^2 = 24$$

$$= \int_0^3 (1 + N^6 - (2 - N^6)^2) \text{ هي}$$

- Ⓐ ١١٢ Ⓑ ٣٩٧ Ⓒ ٢٣٥ Ⓓ ٥

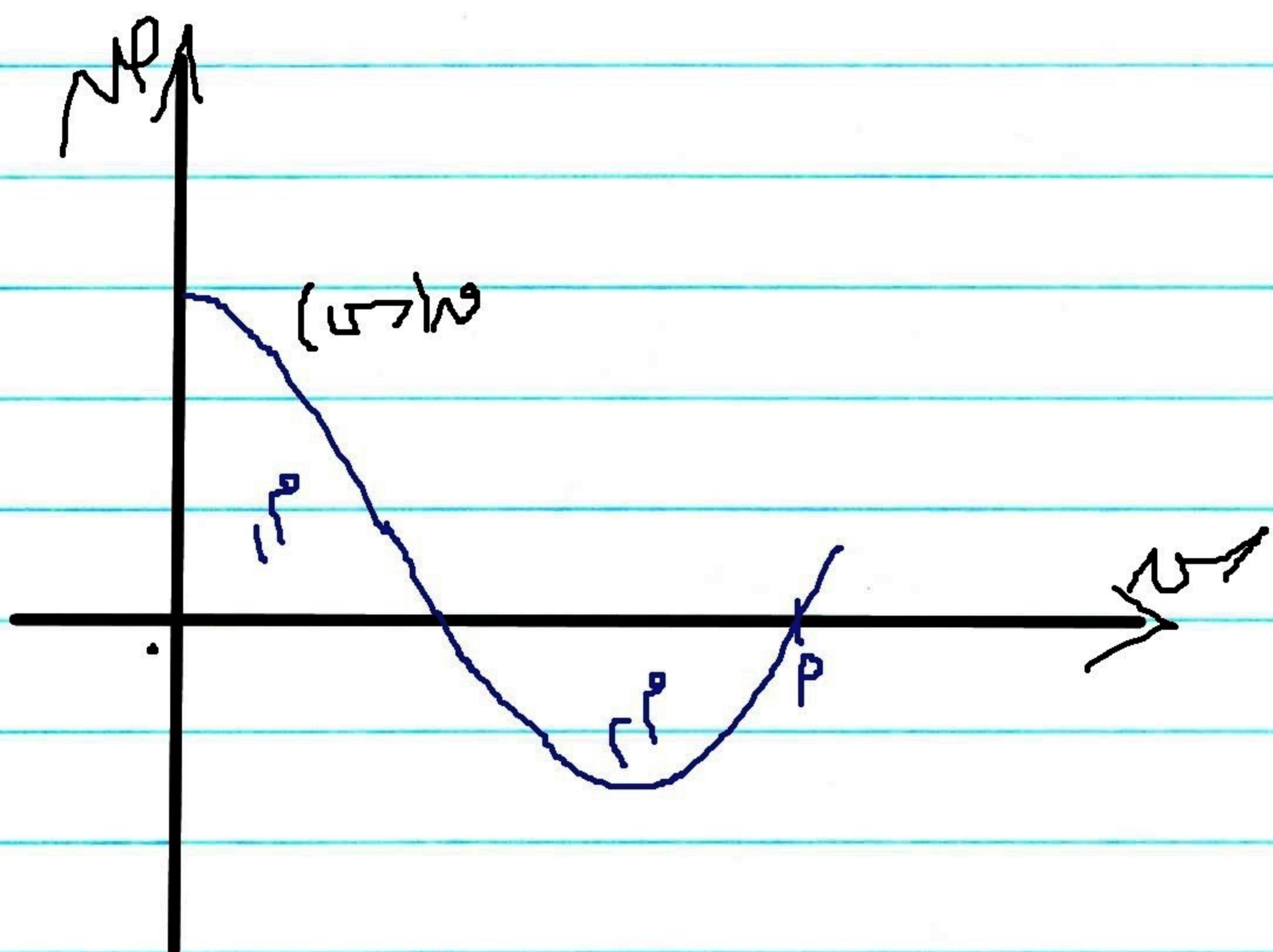
١٣) تمثيل الشكل المجاور عتقلى

وه (س) على الفترة [٠, ٦]

فإذا كانت $m = 1$ وحدة مربعة

$m = 7$ وحدات مربعة فإنه

؟ وه (س) = ٥,٧٥



٢ (٥)

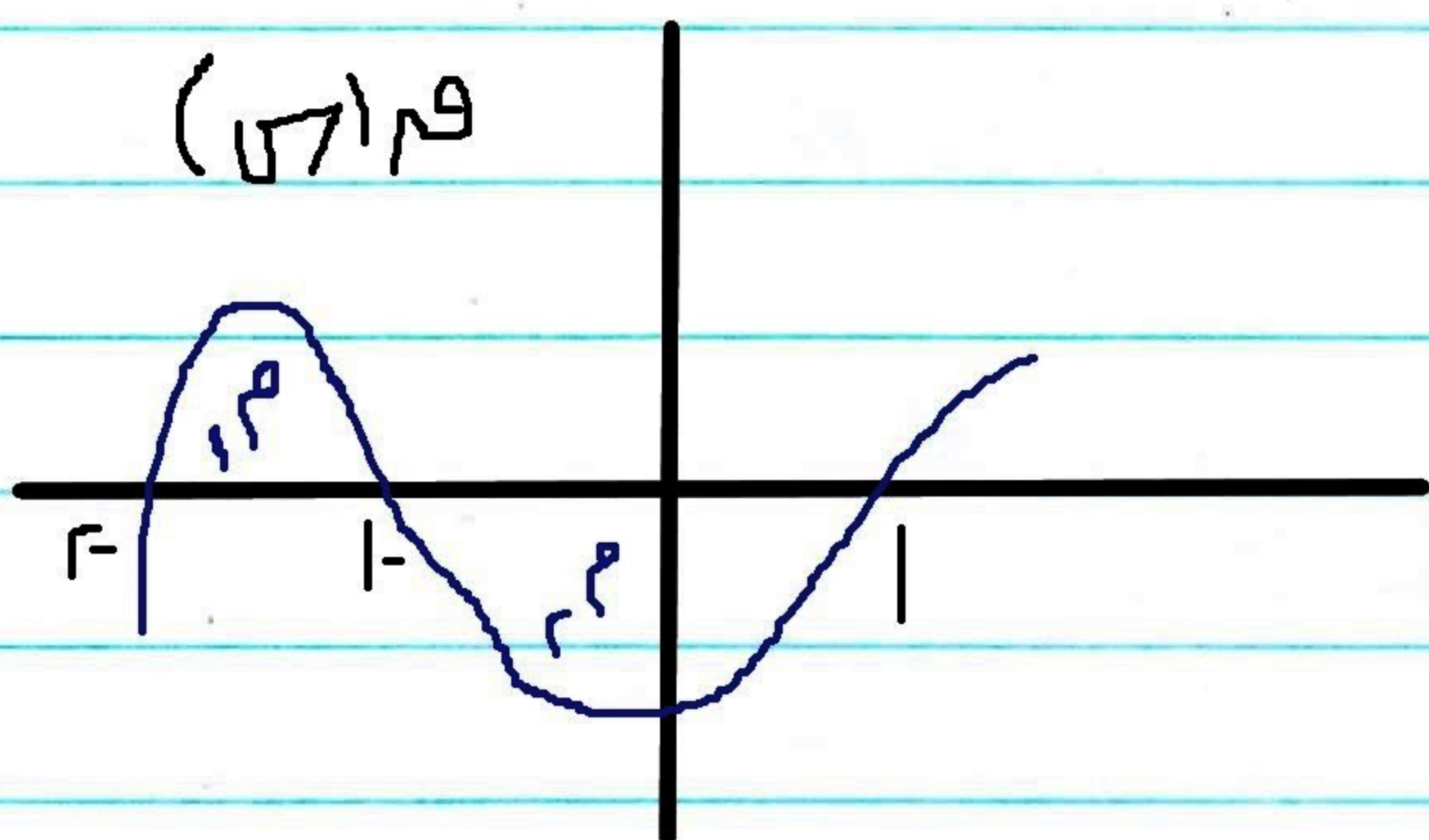
١٤ (٥)

٢ (٥)

١٤ (٥)

١٤) تمثيل الشكل المجاور $m = 4$ وحدات مربعة $m = 12$ وحدة مربعة

فإنه ؟ وه (س) = ٥,٧٥



٤ (٥)

٤ (٥)

٨ (٥)

٨ (٥)

١٥) وه (س) اقترب من متصل $m = 6$ وه (س) = ٥,٧٥ - ٥,٧٥ = ١٤

فإنه قيمة وه (٤) =

١٣ (٥)

١٣ (٥)

٥ (٥)

٥ (٥)

٤

حل اول أسئلة اضيأ الوحدة الثانية
مراجعات - دفعة 2004 -

$$0,0 = 0 \quad \textcircled{1}$$

$$0,0 = r \times \frac{P - 0}{2} + P$$

$$0,0 = r \times 0,3 + P$$

$$0,3 = 0,2 - 0,0$$

(1x)

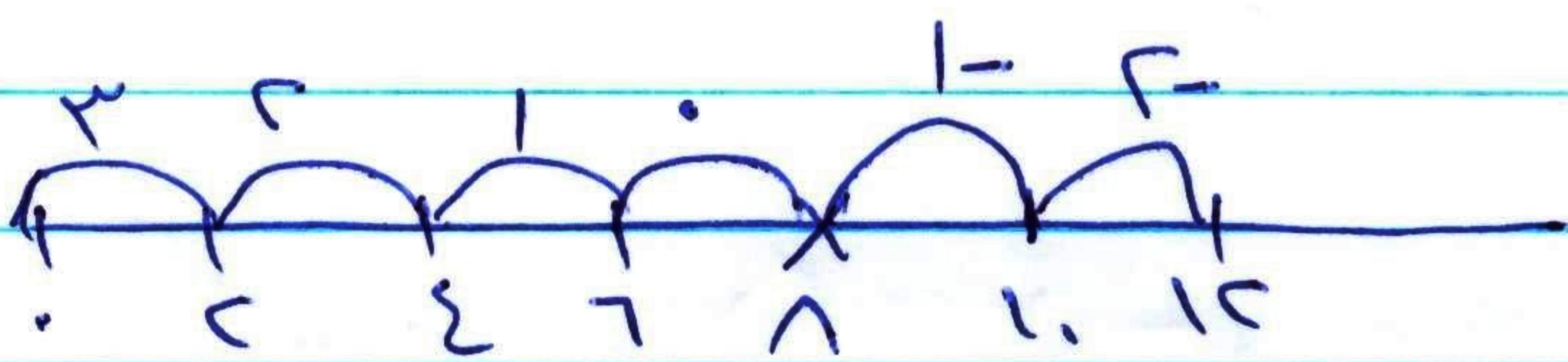
$$0,0 = 0 \times 0,3 + P \quad \Leftrightarrow \quad 0,0 = 0,3 + P$$

$$\textcircled{2} = P \quad \Leftrightarrow \quad 0,0 = 1,0 + P$$

$$0,3 = \frac{P - 0}{r} \quad \Leftrightarrow \quad 0,3 = \frac{2 - 0}{r} \quad \Leftrightarrow \quad 0,3 = \frac{P - 0}{r}$$

$$\textcircled{1} = 0 \quad \Leftrightarrow \quad 7 = 2 - 0 \quad \Leftrightarrow \quad \text{منع } \textcircled{9}$$

$$\textcircled{5} \quad \left[0,3 - \frac{1}{r} \right]^2$$



$$\left[0,3 - \frac{1}{r} \right]$$

طول الدرجة = 5

$$\textcircled{11} = 0,3 \quad \Leftrightarrow \quad 1 = 0,3 - \frac{1}{r}$$

$$0,3 \times 2 + 0,3 \times 3 = 0,3 \left[0,3 - \frac{1}{r} \right]^2$$

$$\textcircled{11} = 2 + 7 = (2 - 2) \times 2 + (1 - 2) \times 3 =$$

منع P

5

$$\textcircled{3} \quad \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}}$$

$$\bar{p} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$r = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$\textcircled{4} \quad \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}}$$

$$\textcircled{5} \quad \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$\frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$\frac{1}{\text{جارجس}} - \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}}$$

$$\textcircled{6} \quad \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

ضرب

$$\textcircled{7} \quad \frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$\frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

$$\frac{1}{\text{جارجس}} = \frac{1}{\text{جارجس}} + \frac{1}{\text{جارجس}}$$

اجاب = مرفوض لان جارجس

او جارجس = ضرب

$$\frac{0.75}{0.75 + 1} + P + \frac{0.75}{0.75} = 0.75 \quad (6)$$

$$1 + 0.75 = \frac{0.75}{0.75} \quad \text{و } \frac{\pi}{\xi} = 0.75$$

$$\text{صفر} + \frac{0.75 - XP}{0.75} + 0.75 \times \frac{0.75}{0.75} = \frac{0.75}{0.75} \quad (7)$$

$$\frac{\pi}{\xi} P - \frac{\pi}{\xi} \times \frac{\pi}{\xi} = \frac{0.75}{0.75}$$

$$(6) - (7) = P \quad \leftarrow \quad P - 0.75 = 1 + 0.75$$

$$0.75(0.75) - 0.75 \quad (8)$$

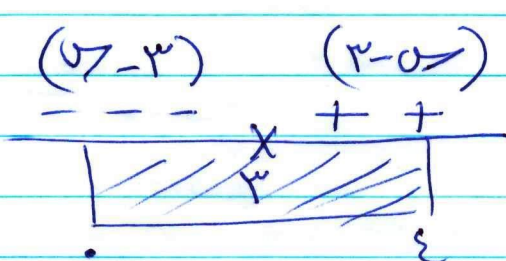
$$0.75(0.75) = 0.75 \quad \text{و } 0.75 = 0.75$$

$$(0.75) = 0.75 \quad \leftarrow \quad 0.75 = 0.75$$

$$0.75(0.75) - 0.75(0.75) =$$

$$(8) - (9) = 0 - 0.75 = 0 - 0.75 = -0.75$$

$$\sqrt[3]{(3-0)^2} = \sqrt[3]{9+0-0} \quad \textcircled{\Lambda}$$



$$\sqrt[3]{3-0} =$$

$$3=0 \quad \leftarrow \quad = 3-0$$

$$\sqrt[3]{(3-0)^2} + \sqrt[3]{(0-3)^2} =$$

$$\left[\sqrt[3]{\frac{9-0}{3}} \right] + \left[\sqrt[3]{\frac{0-9}{3}} \right] =$$

$$\textcircled{\text{P}} \textcircled{\text{Q}} \quad 0+0 = \left[\left(\frac{9-0}{3} \right) - \left(\frac{0-9}{3} \right) \right] + \left[\dots - \left(\frac{9-0}{3} \right) \right] =$$

$$\epsilon \geq (0) \geq 1 \quad \textcircled{\text{A}}$$

$$1 \geq (0) \geq 2$$

$$\sqrt[3]{1} \geq \sqrt[3]{(0) \geq 2} \geq \sqrt[3]{2}$$

$$\sqrt[3]{1} \geq \sqrt[3]{(0) \geq 2} \geq \sqrt[3]{2}$$

$$\textcircled{\text{B}} \geq \sqrt[3]{(0) \geq 2} \geq 2$$

أكبر قيمة

منه

$$\frac{N^2 - 0}{N^2} - \Gamma = (N \sigma) \rho \quad (1)$$

$$(N \sigma) \rho \sum_{\infty \leftarrow N} L' \sigma = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho$$

$$\left(\frac{V}{\Gamma}\right) = \frac{0 - N V \sum_{\infty \leftarrow N} L' \sigma}{N^2} = \frac{(N^2 - 0) - N \sum_{\infty \leftarrow N} L' \sigma}{N^2} =$$

$$\left(\frac{V}{\Gamma}\right) = \frac{V}{\Gamma} \times \Gamma = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \quad \Leftarrow$$

$$\text{⑤} \quad \left(\frac{V}{\Gamma}\right) = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \quad \Leftarrow$$

$$0 = \sigma \tau s (\Gamma - \sigma \tau - (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho) \quad (11)$$

$$\frac{1}{\Gamma} = \left[(\sigma \tau \Gamma - \sigma \tau) + \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \right] =$$

$$V = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \quad \Leftarrow \quad \frac{1}{\Gamma} = (\Gamma - \sigma \tau) + \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho =$$

$$\left(\frac{V}{\Gamma}\right) = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \quad \Leftarrow$$

$$\sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho - \left(\sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \right) \frac{1}{\Gamma} = \sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho \left(\frac{1}{\Gamma} - \frac{1}{\Gamma} \right)$$

$$\sigma \tau s (\sigma \tau) \rho \sum_{\infty \leftarrow N} \rho - \frac{V}{\Gamma} \times \frac{1}{\Gamma} =$$

$$\text{⑥} \quad \left(\frac{1}{\Gamma}\right) = \left[\frac{2}{\Gamma} - \frac{1}{\Gamma} \right] - \frac{V}{\Gamma} =$$

9

$$\Gamma \Sigma = \sigma \tau s \left((\sigma \tau) \circ V + (\sigma \tau) \circ \Gamma \right) \int_1^{\mu} \quad (12)$$

$$\textcircled{11} = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \quad \& \quad \textcircled{11} = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu}$$

$$\Gamma \Sigma = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} V + \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \Gamma$$

$$\Gamma \Sigma = 11 - X V + \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \Gamma$$

$$q \Sigma = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \Gamma \iff V_1 + \Gamma \Sigma = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \Gamma$$

$$\textcircled{13} = \sigma \tau s (\sigma \tau) \circ \int_1^{\mu} \Gamma$$

$$\sigma \tau s (1 + \sigma \tau \Gamma - (\Sigma - \sigma \tau) \circ 0) \int_0^{\mu}$$

$$\sigma \tau s = \sigma \tau s \iff \sigma \tau = \Sigma - \sigma \tau$$

$$1 = \sigma \tau \iff 0 = \sigma \tau \text{ عينا } \checkmark$$

$$\Lambda = \sigma \tau \iff 1 \Gamma = \sigma \tau \text{ عينا } \checkmark$$

$$\sigma \tau s (1 + \sigma \tau \Gamma) \int_0^{\mu} + \sigma \tau s (\Sigma - \sigma \tau) \circ 0 \int_0^{\mu} =$$

$$\left(\begin{matrix} 1 \Gamma \\ 0 \end{matrix} \middle| \sigma \tau + \sigma \tau - \right) + \underbrace{\sigma \tau s (\sigma \tau) \circ 0 \int_1^{\mu}}_{\downarrow} =$$

$$\left[(0 + 1 \Gamma -) - (1 \Gamma + 1 \Gamma -) \right] + \left[\underbrace{\sigma \tau s (\sigma \tau) \circ 0 \int_1^{\mu}}_{\downarrow} + \underbrace{\sigma \tau s (\sigma \tau) \circ 0 \int_1^{\mu}}_{\downarrow} \right] =$$

10

$$(21 + 132) + 1 \times 0 + 27 \times 0 =$$

$$\textcircled{9} \text{ فرع } \textcircled{397} = 112 + 0 + 230 =$$

$$\textcircled{5} \text{ فرع } \textcircled{7} = (7-) + 8 = 075 (07-) \int_{1-}^1 \textcircled{13}$$

$$075 (3-07) \int_{1-}^1 \textcircled{14}$$

افرض $3-07 = 075$

$$\frac{075}{072} = 075 \iff 075 \times 072 = 075$$

$$7- = 07 \text{ فـ } 1- = 07 \text{ عندئذ}$$

$$1 = 07 \text{ فـ } 7 = 07 \text{ عندئذ}$$

$$\frac{075}{072} (07) \int_{7-}^1 = 075 (3-07) \int_{1-}^1$$

$$\textcircled{*} 075 (07) \int_{7-}^1 \frac{1}{7} =$$

$$2 = 075 (07) \int_{7-}^1 = 14$$

$$12- = 075 (07) \int_{1-}^1 = 14$$

$$075 (07) \int_{1-}^1 + 075 (07) \int_{7-}^1 = 14 = 14 + 14$$

11

$$\textcircled{11} = (12) + \xi = 075(07) \int_{\Gamma}^1 =$$

$$\textcircled{12} \text{ في } \textcircled{11} = 075(07) \int_{\Gamma}^1 \sim$$

$$\textcircled{13} = 11 - X \frac{1}{c} = \text{التكامل المطلوب} \sim$$

$$12 - 070 - 07 = 075(07) \int_{07}^{\Gamma} \textcircled{10}$$

$$12 - 070 - \Gamma = (\Gamma) \tilde{0}$$

$$12 - 070 - \xi = \cdot$$

$$070 = 1. \rightarrow$$

$$\textcircled{14} = 0. \rightarrow$$

$$12 - 070 - 07 = (07) \tilde{0}$$

$$0 + 070 = (07) \tilde{0}$$

$$0 + 070 = (07) \text{ و}$$

$$0 + \xi \times 0 = (\xi) \text{ و}$$

$$\textcircled{15} \text{ فرع } \textcircled{13} =$$