

\* امتحانہ مادہ لریاضیات  
\* (منہاج فلسطینی)  
\* لڈسٹاز فخریہ جرار

①، اذا كان  $\theta = \frac{\pi}{2}$ ، وكان  $\rho = 1$ ،  
فما قيمة  $\rho$ ؟

⒫ صفر      ⒱ -2      ⒲ -1      ⒳ 1

②، اذا كان  $\theta = \frac{\pi}{3}$ ، وكان  $\rho = \frac{1}{2}$ ،  
فما قيمة  $\rho$ ؟

⒫  $\frac{\pi}{6}$       ⒱  $-\frac{\pi}{2}$       ⒲  $\frac{\pi}{3}$       ⒳  $\frac{\pi}{2}$

③ ما ناتج  $(\cos^2 \theta - \sin^2 \theta)$ ؟

⒫  $-\cos^2 \theta + \sin^2 \theta$       ⒱  $\cos^2 \theta + \sin^2 \theta$

⒲  $\cos^2 \theta - \sin^2 \theta$       ⒳  $\cos^2 \theta + \sin^2 \theta$

٤) إذا كان  $(1-x)^2 + (x-2)^2 + (x-3)^2 = 0$  ، فما قيمة  $x$  ؟

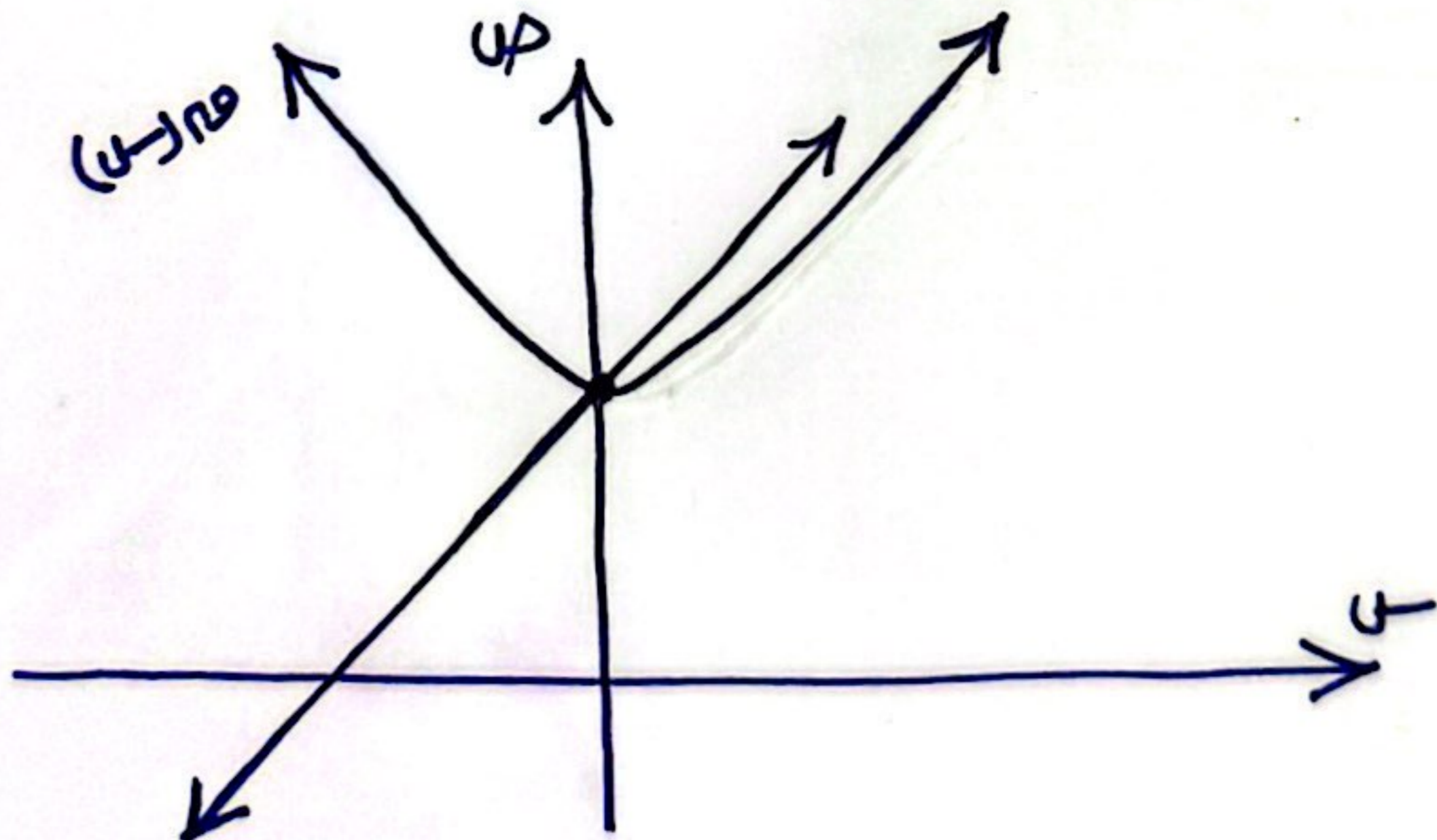
- أ) ١  
 ب) ٠  
 ج) ٣  
 د) ٢

٥) ليكن  $(x^2 + 2x + 1) = 0$  ، فما قيمة  $x$  ؟

- أ) ٢  
 ب) ٣  
 ج) ١  
 د) ٤

٦) بالاعتقاد على الشكل أعلاه ، إذا كان  $x^2 + 2x + 1 = 0$  ، فما قيمة  $x$  ؟

- أ) ٤  
 ب) ٩  
 ج) ١٣  
 د) ٥



٧) إذا كانت سرعة الإبرائية لجسم تساوي  $1 \text{ م/ث}$ ، وكان تسارعه في أي لحظة يساوي  $n \text{ م/ث}^2$ ، فإن سرعته بعد ثابنتين منه بعد الحركة يساوي:

- ٢ م/ث (أ) ٣ م/ث (ب) ٤ م/ث (ج) ٥ م/ث (د)

٨) إذا كانت (نقطت) (١٠٠) نقطت حركت للإقتران كشر (حدود)  $(n-1)$ ، وكان  $(n-1) = 3-1+1$ ، جد  $(n)$ .

- ٧ (أ) (ب) صفر (ج)  $1-n$  (د) ١

٩) أي من التاليين تساوي:  $\left. \frac{(n^2 + n^3)^0}{n^1} \right\}$

(أ)  $1 + \frac{(n^2 + n^3)^1}{1}$  (ب)  $1 + \frac{(n^2 + n^3)^1}{1}$

(ج)  $1 + \frac{(n^2 + n^3)^0}{1}$  (د)  $1 + \frac{(n^2 + n^3)^0}{1}$

(هـ)  $1 + \frac{(n^2 + n^3)^0}{1}$

$$\textcircled{1} \text{ ما قيمته } \left\{ \begin{array}{l} \text{جاس} + \text{لو جتاس} \\ \text{س} \end{array} \right.$$

$$\textcircled{2} \text{ لو قاس } + \text{ج} \quad \textcircled{ب} \text{ جاس } + \text{ج}$$

$$\textcircled{3} \text{ ج } + \frac{1}{\text{جتاس}}$$

$$\textcircled{د} \text{ ج } + \frac{1}{\text{جتاس}}$$

$\textcircled{11}$  إذا كان  $m$  (س) اقتراناً أهلياً للإقتران  $n$  (س)،  
فإنه  $\left\{ \begin{array}{l} 2n \text{ (س)} \\ m \text{ (س)} \end{array} \right.$  يساوي

$$\textcircled{ب} m \text{ (س)} + \text{ج}$$

$$\textcircled{2} m^2 \text{ (س)} + \text{ج}$$

$$\textcircled{د} m \text{ (س)} + n \text{ (س)} + \text{ج}$$

$$\textcircled{3} n \text{ (س)} + \text{ج}$$

$\textcircled{12}$  ما قيمته  $\left\{ \begin{array}{l} \text{جتاس} \\ \text{جتاس} + \text{جاس} \end{array} \right.$   $^{13}$  س

$$\textcircled{ب} \frac{1}{14} (\text{جتاس} + \text{جاس}) + \text{ج}^{14}$$

$$\textcircled{2} \frac{1}{13} (\text{جتاس} + \text{جاس}) + \text{ج}^{13}$$

$$\textcircled{د} \frac{1}{17} (\text{جتاس} + \text{جاس}) + \text{ج}^{17}$$

$$\textcircled{3} \frac{1}{10} (\text{جتاس} + \text{جاس}) + \text{ج}^{10}$$

١٣ ما قيمته  $\left[ \frac{1}{x^2} \right]$  إذا كان  $x = 2$

ب  $\frac{1}{2} + \frac{1}{4}$

د  $\frac{1}{2} + \frac{1}{8}$

س  $\frac{1}{2} + \frac{1}{16}$

ج  $\frac{1}{2} + \frac{1}{32}$

١٤ ما قيمته  $\left[ \frac{1}{x^2} \right]$  إذا كان  $x = 3$

ب  $\frac{1}{3} + \frac{1}{9}$

د  $\frac{1}{3} + \frac{1}{27}$

س  $\frac{1}{3} + \frac{1}{81}$

ج  $\frac{1}{3} + \frac{1}{243}$

١٥ إذا كان  $f(x) = (x-1)^2$  ،  $x < 0$  ، اقترانا أصليا للإقتران (متصل)  $f(x)$  ،  $f(x)$  (عدد نسبي) ، نجد  $\left[ \frac{1}{f(x)} \right]$

ب  $\frac{1}{2} + \frac{1}{4}$

د  $\frac{1}{2} + \frac{1}{8}$

س  $\frac{1}{2} + \frac{1}{16}$

ج  $\frac{1}{2} + \frac{1}{32}$

16 ما ناتج :  $\left\{ \frac{1}{\sqrt{2}} \right\}$  سے

(P)  $\frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}}$

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

(C)  $\frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}}$

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

17 ما ناتج :  $\left\{ \frac{1}{\sqrt{2}} \right\}$  سے

(P)  $\frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}}$

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

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

(S)  $\frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}} \sqrt{2} + \frac{1}{\sqrt{2}}$

18 ناتج رتکامل  $\left\{ \frac{1}{\sqrt{2}} \right\}$  سے ہو :

(B)  $1 + \frac{1}{\sqrt{2}}$

(P)  $1 - \frac{1}{\sqrt{2}}$

(S)  $1 + \frac{1}{\sqrt{2}}$

(C)  $1 - \frac{1}{\sqrt{2}}$

19) ناتيغ لبتكامل :  $\left( \frac{1}{\sqrt{6}} - \frac{1}{\sqrt{3}} \right) \sqrt{3}$

18)  $\frac{1}{\sqrt{6}} + \frac{1}{\sqrt{3}}$

17)  $\frac{1}{\sqrt{6}} + \frac{1}{\sqrt{3}}$

16)  $\frac{1}{\sqrt{6}} + \frac{1}{\sqrt{3}}$

15)  $\frac{1}{\sqrt{6}} + \frac{1}{\sqrt{3}}$

14) ناتيغ لبتكامل :  $\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{6}}$

13)  $\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{6}}$

12)  $\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{6}}$

11)  $\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{6}}$

10)  $\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{6}}$

\* اجابات کے لئے متیار  
\* استاد فخری جبار

$$\text{فہ } (u) = \frac{u}{p} - r \quad (1)$$

$$u - s \left( \frac{u}{p} + r \right) = (u) \text{ فہ} \leftarrow \frac{u}{p} + r = (u) \text{ فہ}$$

$$u + \frac{u}{p} + ur = (u) \text{ فہ}$$

$$r = \frac{u}{p} \leftarrow \cancel{p} = \cancel{p} + \cancel{p} + r = (1) \text{ فہ}$$

$$r - \frac{u}{p} + ur = (u) \text{ فہ}$$

$$\frac{u}{p} + r = r - 1 + 0 = (0) \text{ فہ}$$

$$\text{فہ } (u) = u - s \left( \frac{u}{p} + r \right) \quad (2)$$

نشہ (طرفین) :  $\frac{u}{p} + ur = (u) \text{ فہ}$  جا  $\left( \frac{u}{p} \right)$

$$\pi r = p \leftarrow \pi r = \frac{p}{p} + \pi r = (\pi) \text{ فہ} \quad (5)$$

$$\pi + ur = (u) \text{ فہ} \quad \left( \frac{u}{p} \right) \text{ جا}$$

$$u - s \left( \frac{u}{p} + r \right) \left( \frac{u}{p} - r \right) = u - s \left( \frac{u^2}{p} - r^2 \right) \quad (3)$$

$$u - s \left( 1 - \frac{u}{p} + r \right) = u - s \left( 1 - \frac{u}{p} + r \right) (1) =$$

$$\frac{u}{p} + r - u - r =$$



$$\{ \text{أ} + \text{ب} - \text{ج} - \text{د} + \text{هـ} = \text{و} - \text{ز} (\text{ح} - \text{ط} (1 - \text{ق} - \text{ك})) \} \quad \text{④}$$

نشتره (طرفین):  $\text{ج} - \text{ب} - \text{د} + \text{د} - \text{ج} = (\text{ح} - \text{ط} (1 - \text{ق} - \text{ك}))$

$$\text{نشتره} \quad \frac{\text{ج} - \text{ب} - \text{د} + \text{د} - \text{ج}}{1 - \text{ق} - \text{ك}} = (\text{ح} - \text{ط})$$

$$\frac{(\text{ج} - \text{ب} - \text{د} + \text{د} - \text{ج}) \text{ك} - (\text{ك} + \text{ق} - \text{ح}) (1 - \text{ق} - \text{ك})}{\text{ك} (1 - \text{ق} - \text{ك})} = (\text{ح} - \text{ط})$$

$$\text{پ} \text{ و } \text{ك} = \frac{(\text{ك} - \text{ق}) (\text{ك}) - (\text{ك}) (0)}{\text{ك} 0} = (\text{ك} - \text{ق})$$

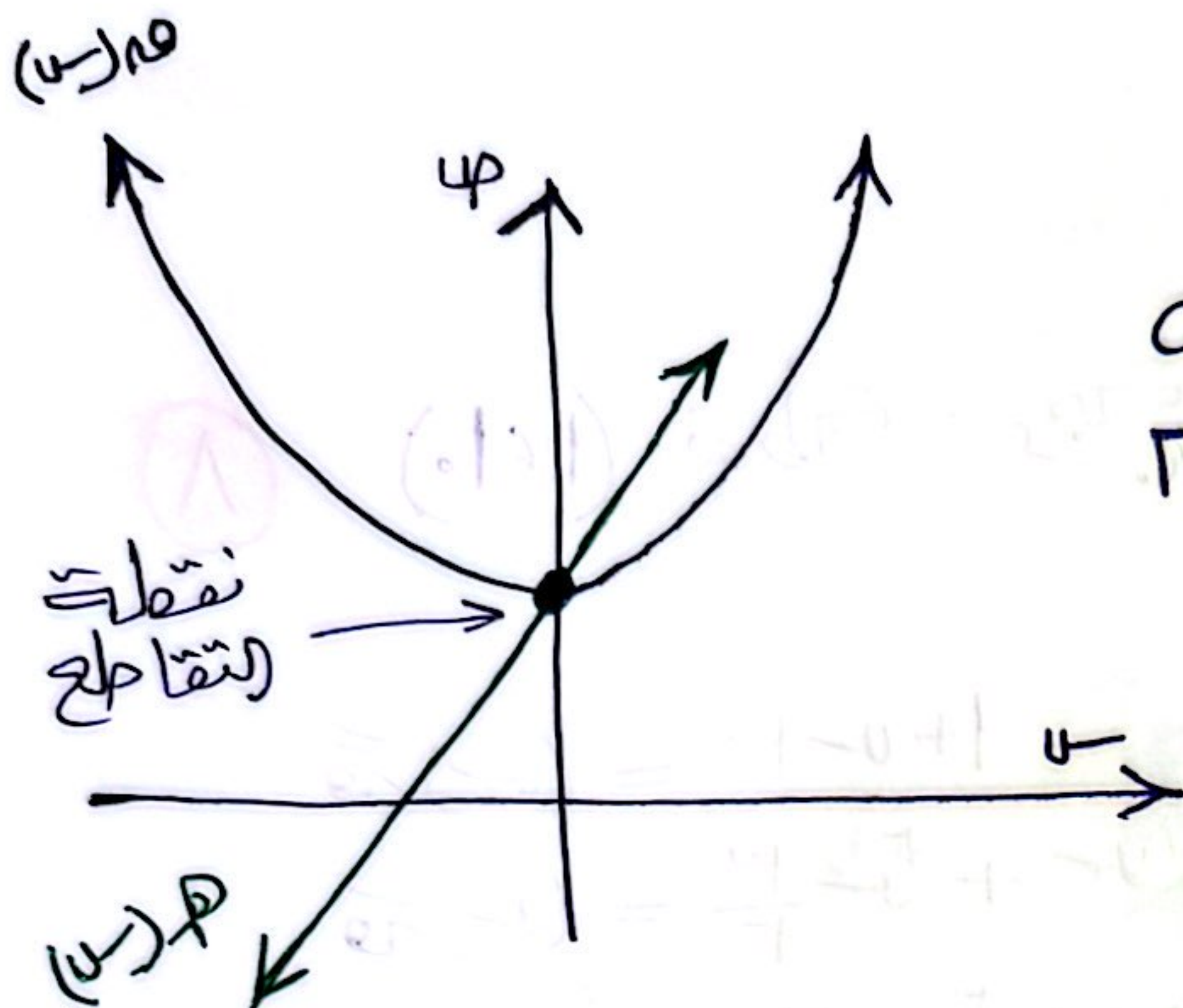
$$\{ \text{و} - \text{ز} (\text{ح} - \text{ط} (\text{ج} + (\text{ح} - \text{ط})) = \text{ح} - \text{ط} \cdot \text{ك} - \text{ز} \} \quad \text{⑤}$$

نشتره (طرفین):  $\text{و} - \text{ز} (\text{ح} - \text{ط} (\text{ج} + (\text{ح} - \text{ط})) = \text{ح} - \text{ط} \cdot \text{ك} - \text{ز}$

نعوض  $\text{و} = \text{ح} - \text{ط} : \text{و} = \text{ح} - \text{ط} + \text{ط} = \text{ح}$

$$\text{ح} - \text{ط} \cdot \text{ك} = \text{ح} - \text{ط} \Rightarrow \text{ح} - \text{ط} \cdot \text{ك} = \text{ح} - \text{ط}$$

$$\text{پ} \quad \text{ك} = \text{ج} \leftarrow \text{ك} = \text{ز}$$



$$0 + u \rightarrow u = (u) \phi \quad (7)$$

$$1 + u \rightarrow 1 + u = (u) \psi$$

$$u \rightarrow (u) \psi \quad \} = (u) \psi$$

$$u \rightarrow (1 + u) \psi \quad \} = (u) \psi$$

$$1 + u + 1 + u = (u) \psi$$

$$0 = 1 + 1 + 0 = (1) \psi$$

$$0 = 1 \quad \therefore$$

من (رسم 3)  
 $0 = (1) \phi$   
 $0 = (1) \psi = (1) \phi$

$$0 + u + 1 + u = (u) \psi \quad \therefore$$

$$(8) \quad 1 + 1 = 0 + 1 + 1 = (1) \psi$$

$$n = \frac{\phi_s}{\psi_s} \iff n = \tilde{n} \iff 1 = (1) \phi \quad (V)$$

$$1 + \frac{1}{1} = \phi \iff \psi_s \tilde{n} = \phi_s$$

$$1 + \frac{1}{1} = (1) \phi \iff 1 = 1 \iff 1 = (1) \phi$$

$$(9) \quad \tilde{n} / \phi = 1 + 1 = (1) \phi \quad \therefore$$

9

نقطة حرجية  $(1, 0)$  8

$1 = (0) \Rightarrow$   
 $\cdot = (0) \Rightarrow$

$$1 + u^2 = (u) \Rightarrow$$

$$\cdot = \frac{1}{1} \leftarrow \cdot = (0) \Rightarrow \frac{1}{1} + u + \frac{1}{1} = (u) \Rightarrow$$

$$u + \frac{1}{1} = (u) \Rightarrow$$

$$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} = (u) \Rightarrow$$

$$1 = \frac{1}{1} \leftarrow 1 = (0) \Rightarrow$$

$$1 + \frac{1}{1} + \frac{1}{1} = (u) \Rightarrow$$

P  $V = 1 + 1 + 1 = (1) \Rightarrow$

$$u^s \frac{(1+u) \cdot (1)}{1} = u^s \frac{(1+u)}{1} \quad \text{9}$$

$$u^s (1+u) = u^s \frac{(1+u) \times \cancel{1}}{\cancel{1}} =$$

P  $\frac{1}{1} + \frac{(1+u)}{1} =$

$$\left. \begin{array}{l} \text{جاس} + \text{لو جتا} \\ \text{س} \end{array} \right\} \text{پ} \quad \text{1.}$$

$$\left. \begin{array}{l} \text{جاس} \\ \text{لو جتا} \\ \text{س} \end{array} \right\} \text{پ} \times \text{پ} =$$

$$\left. \begin{array}{l} \text{جاس} = \text{پ} \\ \frac{\text{س}}{\text{جتا}} = \text{س} \end{array} \right\} \text{س} \text{پ} \times \text{جتا} =$$

$$\left. \begin{array}{l} \text{پ} + \text{پ} = \text{س} \text{پ} \end{array} \right\} = \frac{\text{س}}{\text{جتا}} \text{پ} \text{جتا} =$$

$$\text{پ} \quad \text{پ} + \text{پ} =$$

$$\left. \begin{array}{l} \text{س} \text{پ} \text{جتا} \leftarrow \text{س} \text{پ} \text{جتا} \\ \text{س} \text{پ} \text{جتا} = \text{س} \text{پ} \end{array} \right\} \text{2.}$$

$$\frac{\text{س}}{\text{جتا}} \times \text{پ} \times \text{جتا} \leftarrow \text{س} \text{پ} = \text{س}$$

$$\left. \begin{array}{l} \text{پ} + \text{پ} = \text{س} \text{پ} \end{array} \right\} = \frac{\text{س}}{\text{جتا}} = \text{س}$$

$$\text{پ} \quad \text{پ} + \text{جتا} =$$

$$\int \frac{13}{\sin(x)} (\sin(x) + \cos(x)) \times \sin(x) dx \quad (15)$$

$$\int \frac{13}{\sin(x)} (\sin(x) + \cos(x)) (\sin(x) - \cos(x)) dx$$

$$\int \frac{13}{\sin(x)} (\sin(x) + \cos(x)) (\sin(x) + \cos(x)) (\sin(x) - \cos(x)) dx$$

$$\int \frac{13}{\sin(x)} (\sin(x) + \cos(x)) (\sin(x) - \cos(x)) dx$$

$$\frac{13 \sin(x)}{\sin(x) - \cos(x)} = \sin(x) \leftarrow \sin(x) + \cos(x) = \sin(x)$$

$$\frac{13 \sin(x)}{\sin(x)} \times (\sin(x) - \cos(x)) dx$$

$$\sin(x) + \frac{10 \cos(x)}{10} = \sin(x) + \cos(x)$$

(16)

$$\sin(x) + \frac{1}{10} (\sin(x) + \cos(x)) =$$

(9)

(1)

$$\left. \begin{aligned} & \text{جاس} \times \text{قاس} \\ & \text{جاس} \times \text{قاس} \end{aligned} \right\} = \text{جاس} \times \text{قاس} \quad (13)$$

$$\left. \begin{aligned} & \text{جاس} \times \frac{\text{جاس}}{\text{جاس} \times \text{قاس}} \\ & \text{جاس} \times \frac{\text{جاس}}{\text{قاس}} \end{aligned} \right\} = \text{جاس} \times \frac{\text{جاس}}{\text{قاس}} = \text{جاس} \times \text{قاس}$$

$$\frac{\text{جاس}}{\text{قاس}} = \text{جاس} \quad \leftarrow \text{جاس} \times \text{قاس} \times \text{قاس} = \text{جاس} \times \text{قاس}$$

$$\left. \begin{aligned} & \text{جاس} \times \text{قاس} \\ & \text{جاس} \times \text{قاس} \end{aligned} \right\} = \frac{\text{جاس} \times \text{قاس}}{\text{قاس}} = \text{جاس}$$

$$\text{جاس} \times \frac{1}{1} = \text{جاس} + \frac{\text{جاس}}{1} = \text{جاس}$$

$$\left. \begin{aligned} & \frac{\text{جاس}}{\text{قاس} (1 + \text{جاس} \times \text{قاس})} \\ & \frac{\text{جاس}}{\text{قاس} (1 + \text{جاس} \times \text{قاس})} \end{aligned} \right\} = \frac{\text{جاس}}{\text{قاس} (1 + \text{جاس} \times \text{قاس})} \quad (31)$$

$$1 + \text{جاس} \times \text{قاس} = \text{جاس} \quad \leftarrow \text{جاس} \times \frac{\text{قاس}}{\text{قاس} (1 + \text{جاس} \times \text{قاس})} = \text{جاس}$$

$$\frac{\text{جاس}}{\text{قاس}} = \text{جاس} \quad \leftarrow \text{جاس} \times \frac{1}{\text{قاس}} = \frac{\text{جاس}}{\text{قاس}} \times \frac{\text{قاس}}{\text{قاس}} = \text{جاس}$$

$$\text{جاس} + \frac{1}{(1 + \text{جاس} \times \text{قاس})} = \text{جاس} + \frac{1}{\text{قاس}} \times \frac{1}{\text{قاس}} = \text{جاس}$$

(5)

$$\int_{\mathbb{R}^n} \langle u, v \rangle \delta(x) dx = \langle u, v \rangle = (u)_T^T (v)_T \quad (10)$$

$$u_s \left( \begin{matrix} u_T \\ \phi \end{matrix} \right) \approx x \begin{matrix} u_T \\ \phi \end{matrix} \} \Leftarrow$$

$$\frac{u_s}{u_T} = \frac{u_s}{\begin{matrix} u_T \\ \phi \end{matrix}} = u_s \Leftarrow u_T = \begin{matrix} u_T \\ \phi \end{matrix}$$

$$u_s (u_T) \approx \frac{1}{T} \} = \frac{u_s}{u_T} (u_T) \approx \cancel{u_T} \} =$$

$$\Delta + \left( \begin{matrix} u_T \\ \phi \end{matrix} \right)^T \frac{1}{T} = \Delta + (u_T)^T \frac{1}{T} =$$

$$\Delta + \begin{matrix} \Gamma \\ (u_T) \end{matrix} \frac{1}{T} = \Delta + \begin{matrix} \Gamma \\ \cancel{\phi} \end{matrix} \frac{1}{T} =$$

(4)

$$\Delta + \begin{matrix} \Gamma \\ u_T \end{matrix} =$$

$$\overline{u}^T v = u_T \Leftarrow u_s \left( \begin{matrix} \overline{u}^T v \\ \phi \end{matrix} \right) \} \quad (17)$$

$$\begin{aligned} \overline{u} &= \begin{matrix} u_T \\ \phi \end{matrix} \\ u_s &= u_s u_T^T \end{aligned}$$

$$\begin{aligned} u_T^T \overline{u} &= u_s \\ u_T \overline{u} &= u_s \end{aligned}$$

$$\begin{aligned} u_T^T &= \phi \\ u_s \Gamma &= \phi_s \end{aligned}$$

$$u_s u_T^T \overline{u} u_T^T \} =$$

$$u_s u_T \overline{u} \Gamma - u_T \overline{u} \cdot u_T \Gamma =$$

$$\Delta + |u_T \overline{u}| \frac{1}{T} \Gamma + u_T \overline{u} u_T \Gamma =$$

(P)

$$\Delta + |u_T \overline{u}| \frac{1}{T} \Gamma + \overline{u}^T u_T \cdot u_T \Gamma =$$

$$u_s \{ u_{\bar{p}}, u_T \} \quad \text{IV}$$

$$\begin{array}{l}
 u_{\bar{p}} = \nu s \\
 u_{\bar{p}} = \nu \leftarrow \begin{array}{l} u_T = \bar{p} \\ u_s T = \bar{p} s \end{array}
 \end{array}$$

S

$$\begin{aligned}
 u_s \{ u_{\bar{p}}, T \} - u_{\bar{p}} u_T &= \\
 \bar{p} + u_{\bar{p}} T + u_{\bar{p}} u_T &=
 \end{aligned}$$

$$u_s \{ u_{\bar{p}}, u \} \quad \text{VI}$$

$$\begin{array}{l}
 u_{\bar{p}} = \nu s \\
 u_{\bar{p}} = \nu \leftarrow \begin{array}{l} u = \bar{p} \\ u_s = \bar{p} s \end{array}
 \end{array}$$

$$u_s \{ u_{\bar{p}}, u \} - u_{\bar{p}} u =$$

$$\begin{aligned}
 & \left[ (u_{\bar{p}} - u_{\bar{p}} u) \right] = \\
 & \left( \bar{p} - \bar{p} - \right) - (1 -) =
 \end{aligned}$$

p

$$\left( 1 - \frac{1}{\bar{p}} \right) = \bar{p} T + 1 - =$$



$$u-s \left( \frac{1}{\Gamma(u)} - \frac{1}{u} \right) \quad (19)$$

$$u-s \frac{1}{\Gamma(u)} - u-s \frac{1}{u} =$$

اجزاس →

$$u-s = us$$

$$\frac{1}{u} = s$$

$$u = s$$

$$\frac{1}{\Gamma(u)u} = s$$

$$\frac{u-s}{\Gamma(u)} - \frac{u-s}{\Gamma(u)u} - \frac{u}{u} =$$

~~$$\frac{u-s}{\Gamma(u)} - \frac{u-s}{\Gamma(u)} + \frac{u}{u} =$$~~

•

$$\cdot + \frac{u}{u} =$$

$$u_s \quad u_{\text{load}} \quad u_T \quad \left. \vphantom{u_s} \right\} \text{①}$$

$$u_T = u_s$$

$$u_T = u_s$$

$$u_s \quad \left. \vphantom{u_s} \right\} = u_s$$

$$u_s \quad \left. \vphantom{u_s} \right\} \times \left. \vphantom{u_s} \right\} =$$

$$u_s \quad \left. \vphantom{u_s} \right\} =$$

$$\left( \left. \vphantom{u_s} \right\} \right) =$$

$$\left( \frac{1}{T} - \cdot \right) - \left( \frac{1}{T} - \cdot \right) =$$

②

$$\frac{1 + \frac{1}{T}}{T} = \frac{1}{T} + \frac{1}{T} =$$

الاجابة

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