

[illegible][illegible][illegible]

(۴) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2 x}{dt^2} \right) = \frac{1}{2} \frac{d^3 x}{dt^3}$

[illegible][illegible]

(۴) $\begin{aligned} & \text{اگرچه هر فردی} \quad \text{و سرور در برابر کسی} \quad \text{از حقش تجاوز نکند} \quad \text{و هر چه خواهد کرد} \quad \text{در حقش} \\ & \text{خودش را میگذارد} \quad \text{و سرور هر کسی} \quad \text{در حقش} \quad \text{و سرور هر کسی} \quad \text{از حقش} \quad \text{تجاوز نکند} \quad \text{و هر چه خواهد کرد} \quad \text{در حقش} \quad \text{خودش را میگذارد} \end{aligned}$

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$$(1) \quad \frac{d\alpha}{dt} = -\frac{\beta}{\alpha} \left(\frac{d\beta}{dt} + \gamma \right)$$

(2) $\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible]

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[illegible]

(1) $\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

(2) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) = \frac{1}{2} \frac{d^3}{dt^3}$ $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) = \frac{1}{2} \frac{d^3}{dt^3}$ $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) = \frac{1}{2} \frac{d^3}{dt^3}$

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(7) بَیِّنَاتٌ مِّن رَّبِّهِمْ : هَٰذَا بَيِّنَاتٌ مِّن رَّبِّهِمْ لَئِيْلَ كَافِرِيْنَ

[illegible]

(س) دَکْزَرِیْ هَوُفِیْ دَکْزَرِیْ دَکْزَرِیْ دَکْزَرِیْ دَکْزَرِیْ 02 (تَرَ) هَوُفِیْ رُخْسُو سُرُو. یَمَجْر
دَکْزَرِیْ هَوُفِیْ دَکْزَرِیْ اَسْرَدُ یَسْقُو یَسْرُسُ 10 (تَرَ رَارِ) هَوُفِیْ سُرُو.

(س) ی م ج ز ح ط ث د ذ ر ک و ق ی م ج ز ح ط ث د ذ ر ک و ق ی م ج ز ح ط ث د ذ ر ک و ق ی م ج ز ح ط ث د ذ ر ک و ق

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(1) $\mathbf{y}_k^T \mathbf{A} \mathbf{y}_k + \mathbf{b}^T \mathbf{y}_k + c$ (2) $\mathbf{y}_k^T \mathbf{A} \mathbf{y}_k + \mathbf{b}^T \mathbf{y}_k + c$

(2) $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$ $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$

[illegible]

[illegible]
$$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x} \quad (3)$$

(س) دځو اترې (۱) زه هغه سړي ته خو غواړم چې دوی سر ته ورسېدلی وي او داسې کړي چې دوی په خپل پرتله کې دوی ته رسېږي.

اوس د دې اړخونو په اړه داسې فکر وکړئ چې دوی ته رسېدلای شول چې دوی ته رسېږي.

[illegible]

(ر) ”ھَعْلَانُو سَرُومُو مَ تَرْدِر دِ دِ بَرِي خَوَسَرَانُو اَكْسَرُوسَرَانُو“

9. (أ) $\frac{1}{2} \frac{d^2 x}{dt^2} + \frac{1}{2} \frac{d^2 y}{dt^2} = \frac{1}{2} \frac{d^2 z}{dt^2}$ $\frac{1}{2} \frac{d^2 x}{dt^2} + \frac{1}{2} \frac{d^2 y}{dt^2} = \frac{1}{2} \frac{d^2 z}{dt^2}$

(ر) اِسْمُكَ لَمْ يَكُنْ دَارِ هَؤُلَاءِ اَسْمُسِرُو 4 (اِسْمُكَ) هَؤُلَاءِ.

$$(1) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

(2) $\vec{r} = r \hat{r}$

$$(3) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$
$$(4) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

(س) فَوَاقِدُ هِيَ قَوَائِدُ هِيَ كُؤُوتُ 5. وَسَ دَوَائِدُ هِيَ سَوَائِدُ
دَوَائِدُ هِيَ قَوَائِدُ هِيَ كُؤُوتُ 1 وَسَ 2 وَسَ 3 وَسَ سَوَائِدُ.

(س) $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$ $\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$ $\frac{1}{5} \times \frac{1}{6} = \frac{1}{30}$ $\frac{1}{6} \times \frac{1}{7} = \frac{1}{42}$ $\frac{1}{7} \times \frac{1}{8} = \frac{1}{56}$ $\frac{1}{8} \times \frac{1}{9} = \frac{1}{72}$ $\frac{1}{9} \times \frac{1}{10} = \frac{1}{90}$ $\frac{1}{10} \times \frac{1}{11} = \frac{1}{110}$ $\frac{1}{11} \times \frac{1}{12} = \frac{1}{132}$ $\frac{1}{12} \times \frac{1}{13} = \frac{1}{156}$ $\frac{1}{13} \times \frac{1}{14} = \frac{1}{182}$ $\frac{1}{14} \times \frac{1}{15} = \frac{1}{210}$ $\frac{1}{15} \times \frac{1}{16} = \frac{1}{240}$ $\frac{1}{16} \times \frac{1}{17} = \frac{1}{272}$ $\frac{1}{17} \times \frac{1}{18} = \frac{1}{306}$ $\frac{1}{18} \times \frac{1}{19} = \frac{1}{342}$ $\frac{1}{19} \times \frac{1}{20} = \frac{1}{380}$ $\frac{1}{20} \times \frac{1}{21} = \frac{1}{420}$ $\frac{1}{21} \times \frac{1}{22} = \frac{1}{462}$ $\frac{1}{22} \times \frac{1}{23} = \frac{1}{506}$ $\frac{1}{23} \times \frac{1}{24} = \frac{1}{552}$ $\frac{1}{24} \times \frac{1}{25} = \frac{1}{600}$ $\frac{1}{25} \times \frac{1}{26} = \frac{1}{650}$ $\frac{1}{26} \times \frac{1}{27} = \frac{1}{702}$ $\frac{1}{27} \times \frac{1}{28} = \frac{1}{756}$ $\frac{1}{28} \times \frac{1}{29} = \frac{1}{812}$ $\frac{1}{29} \times \frac{1}{30} = \frac{1}{870}$ $\frac{1}{30} \times \frac{1}{31} = \frac{1}{930}$ $\frac{1}{31} \times \frac{1}{32} = \frac{1}{992}$ $\frac{1}{32} \times \frac{1}{33} = \frac{1}{1056}$ $\frac{1}{33} \times \frac{1}{34} = \frac{1}{1122}$ $\frac{1}{34} \times \frac{1}{35} = \frac{1}{1190}$ $\frac{1}{35} \times \frac{1}{36} = \frac{1}{1260}$ $\frac{1}{36} \times \frac{1}{37} = \frac{1}{1332}$ $\frac{1}{37} \times \frac{1}{38} = \frac{1}{1406}$ $\frac{1}{38} \times \frac{1}{39} = \frac{1}{1482}$ $\frac{1}{39} \times \frac{1}{40} = \frac{1}{1560}$ $\frac{1}{40} \times \frac{1}{41} = \frac{1}{1640}$ $\frac{1}{41} \times \frac{1}{42} = \frac{1}{1722}$ $\frac{1}{42} \times \frac{1}{43} = \frac{1}{1806}$ $\frac{1}{43} \times \frac{1}{44} = \frac{1}{1892}$ $\frac{1}{44} \times \frac{1}{45} = \frac{1}{1980}$ $\frac{1}{45} \times \frac{1}{46} = \frac{1}{2070}$ $\frac{1}{46} \times \frac{1}{47} = \frac{1}{2162}$ $\frac{1}{47} \times \frac{1}{48} = \frac{1}{2256}$ $\frac{1}{48} \times \frac{1}{49} = \frac{1}{2352}$ $\frac{1}{49} \times \frac{1}{50} = \frac{1}{2450}$ $\frac{1}{50} \times \frac{1}{51} = \frac{1}{2550}$ $\frac{1}{51} \times \frac{1}{52} = \frac{1}{2652}$ $\frac{1}{52} \times \frac{1}{53} = \frac{1}{2756}$ $\frac{1}{53} \times \frac{1}{54} = \frac{1}{2862}$ $\frac{1}{54} \times \frac{1}{55} = \frac{1}{2970}$ $\frac{1}{55} \times \frac{1}{56} = \frac{1}{3080}$ $\frac{1}{56} \times \frac{1}{57} = \frac{1}{3192}$ $\frac{1}{57} \times \frac{1}{58} = \frac{1}{3306}$ $\frac{1}{58} \times \frac{1}{59} = \frac{1}{3422}$ $\frac{1}{59} \times \frac{1}{60} = \frac{1}{3540}$ $\frac{1}{60} \times \frac{1}{61} = \frac{1}{3660}$ $\frac{1}{61} \times \frac{1}{62} = \frac{1}{3782}$ $\frac{1}{62} \times \frac{1}{63} = \frac{1}{3906}$ $\frac{1}{63} \times \frac{1}{64} = \frac{1}{4032}$ $\frac{1}{64} \times \frac{1}{65} = \frac{1}{4160}$ $\frac{1}{65} \times \frac{1}{66} = \frac{1}{4290}$ $\frac{1}{66} \times \frac{1}{67} = \frac{1}{4422}$ $\frac{1}{67} \times \frac{1}{68} = \frac{1}{4556}$ $\frac{1}{68} \times \frac{1}{69} = \frac{1}{4692}$ $\frac{1}{69} \times \frac{1}{70} = \frac{1}{4830}$ $\frac{1}{70} \times \frac{1}{71} = \frac{1}{4970}$ $\frac{1}{71} \times \frac{1}{72} = \frac{1}{5112}$ $\frac{1}{72} \times \frac{1}{73} = \frac{1}{5256}$ $\frac{1}{73} \times \frac{1}{74} = \frac{1}{5402}$ $\frac{1}{74} \times \frac{1}{75} = \frac{1}{5550}$ $\frac{1}{75} \times \frac{1}{76} = \frac{1}{5700}$ $\frac{1}{76} \times \frac{1}{77} = \frac{1}{5852}$ $\frac{1}{77} \times \frac{1}{78} = \frac{1}{6006}$ $\frac{1}{78} \times \frac{1}{79} = \frac{1}{6162}$ $\frac{1}{79} \times \frac{1}{80} = \frac{1}{6320}$ $\frac{1}{80} \times \frac{1}{81} = \frac{1}{6480}$ $\frac{1}{81} \times \frac{1}{82} = \frac{1}{6642}$ $\frac{1}{82} \times \frac{1}{83} = \frac{1}{6806}$ $\frac{1}{83} \times \frac{1}{84} = \frac{1}{6972}$ $\frac{1}{84} \times \frac{1}{85} = \frac{1}{7140}$ $\frac{1}{85} \times \frac{1}{86} = \frac{1}{7310}$ $\frac{1}{86} \times \frac{1}{87} = \frac{1}{7482}$ $\frac{1}{87} \times \frac{1}{88} = \frac{1}{7656}$ $\frac{1}{88} \times \frac{1}{89} = \frac{1}{7832}$ $\frac{1}{89} \times \frac{1}{90} = \frac{1}{8010}$ $\frac{1}{90} \times \frac{1}{91} = \frac{1}{8190}$ $\frac{1}{91} \times \frac{1}{92} = \frac{1}{8372}$ $\frac{1}{92} \times \frac{1}{93} = \frac{1}{8556}$ $\frac{1}{93} \times \frac{1}{94} = \frac{1}{8742}$ $\frac{1}{94} \times \frac{1}{95} = \frac{1}{8930}$ $\frac{1}{95} \times \frac{1}{96} = \frac{1}{9120}$ $\frac{1}{96} \times \frac{1}{97} = \frac{1}{9312}$ $\frac{1}{97} \times \frac{1}{98} = \frac{1}{9506}$ $\frac{1}{98} \times \frac{1}{99} = \frac{1}{9702}$ $\frac{1}{99} \times \frac{1}{100} = \frac{1}{9900}$

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11. (أ) $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

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