〔Ⅰ〕

(ア) $\sqrt{\dfrac{GM_{\mathrm{A}}}{a}}$　(イ) $\dfrac{1}{2}m_1{v_1}^2-\dfrac{GM_{\mathrm{A}}m_1}{2a}$　(ウ) $\sqrt{\dfrac{GM_{\mathrm{A}}}{a}}$

(エ) $\dfrac{M_{\mathrm{B}}}{M_{\mathrm{A}}+M_{\mathrm{B}}}R$　(オ) $M_{\mathrm{A}}\sqrt{\dfrac{G}{(M_{\mathrm{A}}+M_{\mathrm{B}})R}}$　(カ) $2\pi\sqrt{\dfrac{R^3}{G(M_{\mathrm{A}}+M_{\mathrm{B}})}}$

(キ) $\dfrac{r}{R^3}$　(ク) $\dfrac{Gm'}{R^2}\sqrt{{M_{\mathrm{A}}}^2+{M_{\mathrm{B}}}^2+M_{\mathrm{A}}M_{\mathrm{B}}}$　(ケ) $\dfrac{\sqrt{3}(M_{\mathrm{A}}+M_{\mathrm{B}})}{M_{\mathrm{A}}-M_{\mathrm{B}}}$

〔Ⅱ〕

(ア) $\dfrac{V}{R}-\dfrac{qd}{\varepsilon_0 SR}$　(イ) $\dfrac{\varepsilon_0 SV^2}{2d}$　(ウ) $\dfrac{\varepsilon_0 S}{d^2}\Delta d$　(エ) $\dfrac{\varepsilon_0 SV^2}{d^2}\Delta d$

(オ) $\dfrac{\varepsilon_0 SV^2}{2d^2}$　(カ) $\dfrac{\varepsilon_0 SV}{3d}$　(キ) $\dfrac{V}{3d}$　(ク) $d\sqrt{\dfrac{2mg}{\varepsilon_0 a}}$

〔Ⅲ〕

(ア) $\dfrac{2n-1}{4L}\sqrt{\dfrac{\gamma p}{\rho}}$　(イ) $\dfrac{L}{3}$　(ウ) $\dfrac{2L}{5}$　(エ) ρad

(オ) $\dfrac{\gamma pa^2}{V}\Delta y$　(カ) $\dfrac{1}{2\pi}\sqrt{\dfrac{\gamma pa}{\rho dV}}$　(キ) $\sqrt{\dfrac{T'}{T}}$　(ク) $\left(1-\dfrac{1}{k^2}\right)V$