Svör

$$\begin{array}{c} \textbf{Dæmi 1} \ \ [P] = \log \mathrm{m}^2/\mathrm{s}^3, \ [G] = \mathrm{m}^3/(\log \mathrm{s}^2), \ \ [\epsilon_0] = \mathrm{s}^2\mathrm{C}^2/(\log \mathrm{m}^3) \\ \textbf{Dæmi 2} \ \ \omega = 2\pi\sqrt{\frac{MG}{R^3}} = 3.94 \cdot 10^{-3} \, \mathrm{1/s}. \\ \textbf{Dæmi 3} \ \ [L_P] = \sqrt{\frac{hG}{c^3}} = 1.28 \cdot 10^{-30} \, \mathrm{m}, \ [t_P] = \sqrt{\frac{hG}{c^5}} = 4.26 \cdot 10^{-37} \, \mathrm{s}, \ [m_P] = \sqrt{\frac{hc}{G}} = 1.73 \, \mu \mathrm{g}. \\ \textbf{Dæmi 4} \\ \textbf{Dæmi 5} \ \ \tau = \frac{c\rho D^2}{\kappa}. \\ \textbf{Dæmi 6} \ \ P_{\mathrm{rad}} = \frac{1}{6\pi} \frac{a^2 q^2}{c^3 \varepsilon_0} \\ \textbf{Dæmi 7} \\ \textbf{Dæmi 8} \ \ r_0 = \frac{1}{\rho_c} \sqrt{\frac{p_c}{G}} \\ \textbf{Dæmi 9} \\ \textbf{Dæmi 10} \\ \textbf{Dæmi 12} \\ \textbf{Dæmi 13} \ \ E(x) \approx \frac{qd}{2\pi\varepsilon_0 x^3}. \\ \textbf{Dæmi 14} \ \ 1.63 \, \mathrm{s}. \\ \textbf{Dæmi 15} \\ \textbf{Dæmi 16} \end{array}$$