

## **Generated by CamScanner**

(b)

$$P^2 = \frac{4\pi^2}{6M_{\oplus}} \Omega^3$$

$$\Delta^3 = \frac{P^2}{4\pi^2} G M_{\oplus}$$

$$= \frac{(86460.90)}{(6.673\times10^{-11})} \cdot (6.673\times10^{-11}) \cdot (8.973\times10^{-11})$$

$$=42240cm$$

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2.8

(A)

1-610 fcm

$$V = 6.378 \times 10^6 \,\mathrm{M}$$

= 6.10×18 W

=610000 m

$$P^2 = \frac{4\pi^2}{GM_{\odot}}R^3$$

: Kepler's third law.

$$p^2 = \frac{4\pi^2}{}$$

(6.673×10-11 N·m² /g-2). (5.9736×1029/cg)

kg in /sec²

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