

Assessment

Circular Motion and Gravitation**Teacher Notes and Answers****7 Circular Motion and Gravitation****MOTION IN SPACE**

1. c
2. d
3. b
4. c
5. a
6. d
7. e
8. d
9. The astronaut is in free fall at the same rate of acceleration as his or her surroundings.
10. $r = 5240$ s; $V_c = 7820$ m/s
Given
 $altitude = 139 \text{ km} = 1.39 \times 10^5 \text{ m}$
 $r_E = 1.74 \times 10^6 \text{ m}$
 $m_E = 5.97 \times 10^{24} \text{ kg}$
 $G = 6.673 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$

Solution

$$r = altitude + r_E = (1.39 \times 10^5 \text{ m}) + (6.38 \times 10^6 \text{ m}) = 6.52 \times 10^6 \text{ m}$$

$$T = 2\pi \sqrt{\frac{r^3}{Gm}} =$$

$$2\pi \sqrt{\frac{(6.52 \times 10^6 \text{ m})^3}{(6.673 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2)(5.97 \times 10^{24} \text{ kg})}} = 5240 \text{ s}$$

$$v_c = \sqrt{G \frac{m}{r}} = \frac{(6.673 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2) \times (5.97 \times 10^{24} \text{ kg})}{(6.52 \times 10^6 \text{ m})} = 7820 \text{ m/s}$$

Holt Physics Circular Motion And Gravitation Problem B Answers

Emilie Sanchez



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