

Unit Orbital Energy Questions

1. $\Delta E = 30 \text{ J}$

2. $r = 42200 \text{ km}$ Alt $= 3.59 \times 10^7 \text{ m}$

$$E_o = -2.2 \times 10^{10} \text{ J}$$

3. $r = 2.0 \times 10^7 \text{ m}$

4. a) $T = 24.6 \text{ s}$

b) Simulated $g \propto 1/T$

5. $\Delta E = 1.2 \times 10^{11} \text{ J}$

6. 7.9 km/s