

**Result:**

1.  $-4.447 \cdot 10^{-20} \text{ J}$
2.  $-2.421 \cdot 10^{-19} \text{ J}$

**Solution:**

$$1. E_n = -\frac{2.179 \cdot 10^{-18} \text{ J}}{n^2} \text{ so, } E_7 = -\frac{2.179 \cdot 10^{-18} \text{ J}}{7^2} = -4.447 \cdot 10^{-20} \text{ J}$$

$$2. E_n = -\frac{2.179 \cdot 10^{-18} \text{ J}}{n^2} \text{ so, } E_3 = -\frac{2.179 \cdot 10^{-18} \text{ J}}{3^2} = -2.421 \cdot 10^{-19} \text{ J}$$