

$$5. \quad 3.65 \cdot 10^{23} \cdot 4.12 \times 10^{154} \cdot 1.11 \times 10^{-11}$$

$$(3.65)(4.12)(1.11) \times 10^{166}$$

$$\underbrace{16.69218}_{\text{}} \times 10^{166}$$

$$1.67 \times 10^{167}$$

$$6. \quad (5.7 \times 10^6 \text{ kg}) \left(6.3 \times 10^{-2} \frac{\text{m}}{\text{s}^2} \right)$$

$$\underbrace{35,91}_{\text{}} \times 10^{4+1} \frac{\text{kg m}}{\text{s}^2}$$

$$\boxed{3.6 \times 10^5 \frac{\text{kg m}}{\text{s}^2}}$$

Physics

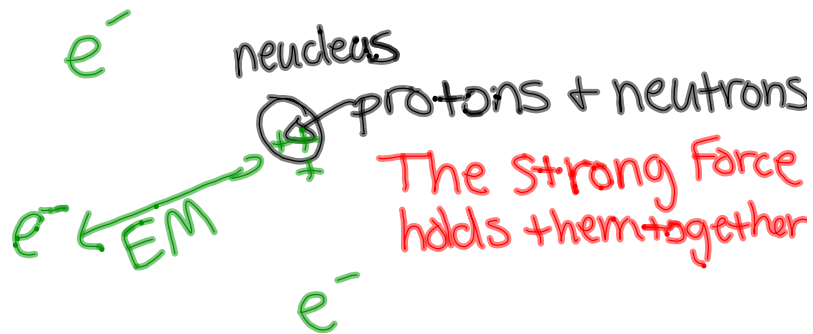
the atom

nucleus charges

neutrons

electrons

protons



Force:

- causes change
- a push or a pull

4 forces

- Strong force: holds protons + neutrons together
- weak force: radiation
- ★ • Electro-magnetic → nucleus + electrons
- Gravity