

$$1 \text{ dm} = 10^{-1} \text{ m}$$

$$1 \text{ cm} = 10^{-2} \text{ m} = 0,01 \text{ m} = \frac{1}{100} \text{ m}$$

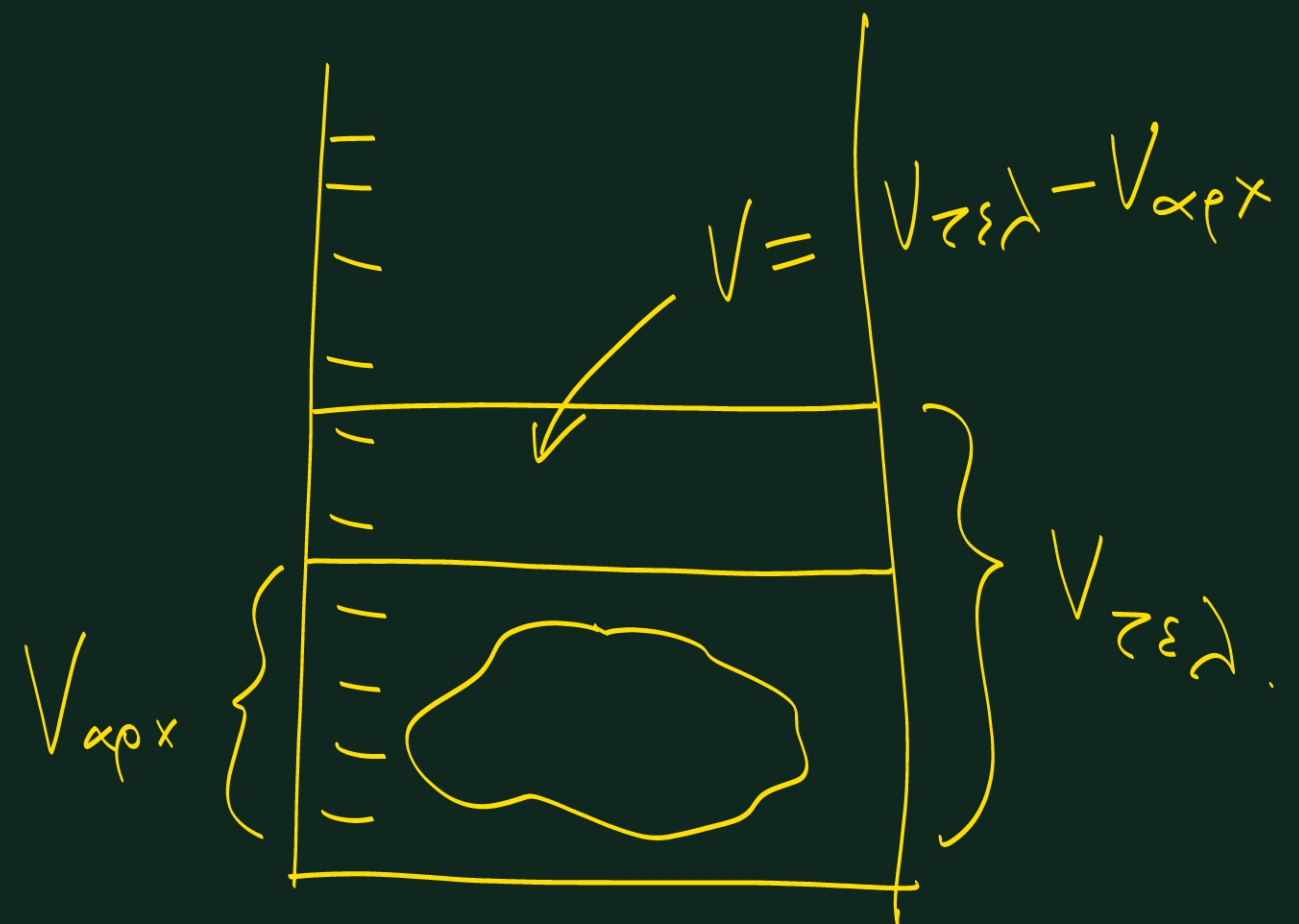
$$1 \text{ }\mu\text{m} = 10^{-6} \text{ m} = 0,000001 = \frac{1}{1.000.000} \text{ m}$$

$$1 \text{ km} = 10^3 \text{ m}.$$

$$1 \text{ \AA} = 1 \text{ Angström} = 10^{-10} \text{ m} = \text{ωρρμμι} \\ \alpha\tau\omicron\upsilon\mu\iota \\ \delta\iota\alpha\mu\epsilon\tau\omicron\varsigma.$$

$$1 \text{ m}^2 = (10^2 \text{ cm})^2 = 10^4 \text{ cm}^2$$

$$1 \text{ m}^3 = (10^3 \text{ mm})^3 = 10^9 \text{ mm}^3$$



Assu. 20)

$$|a_{02}| = \sqrt{a_1^2 + a_2^2 + 2a_1a_2 \cos \theta}$$

$$F_{02} = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos \theta} \Rightarrow$$

$$\sqrt{13} = \sqrt{3^2 + 4^2 + 2 \cdot 3 \cdot 4 \cdot \cos \theta} \Rightarrow$$

$$13 = 9 + 16 + 24 \cos \theta \Rightarrow$$

$$13 - 9 - 16 = 24 \cos \theta \Rightarrow \frac{-12}{24} = \frac{24 \cos \theta}{24} \Rightarrow \cos \theta = -\frac{1}{2}$$

$$\cos 60^\circ = \frac{1}{2}$$

$$\cos 120^\circ = -\frac{1}{2}$$

$$\therefore \theta = 120^\circ$$