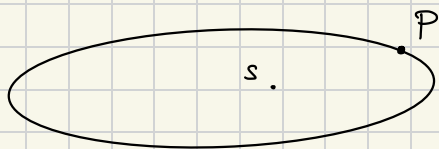


Pag 299 e seguenti:

12:



$$a = 5,91 \cdot 10^{12} \text{ m}$$

$$e = 0,269$$

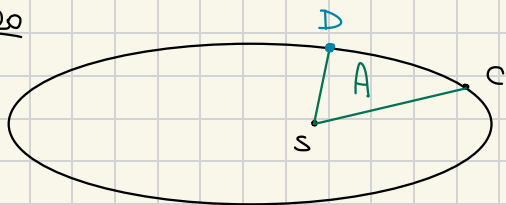
$$b = ?$$

$$e = \frac{c}{a} \quad \rightsquigarrow \quad c = e \cdot a$$

$$a^2 = b^2 + c^2 \quad \rightsquigarrow \quad b^2 = a^2 - c^2 = a^2 - e^2 a^2 \quad \rightsquigarrow \quad b = \sqrt{a^2 - e^2 a^2}$$

$$\rightsquigarrow \quad b = a \sqrt{1 - e^2} \approx 5,72 \cdot 10^{12} \text{ m}$$

20



$$A = \frac{1}{15} \text{ Area ellisse}$$

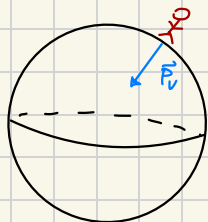
Per fare il tratto CD ci mette 8 mesi

Periodo di riv. della cometa = ?

II legge di Keplero: Aree uguali in tempi uguali

$\Rightarrow$  Tempo di rivoluzione  $8 \text{ mesi} \cdot 15 = 120 \text{ mesi} = 10 \text{ anni}$

38:



$P_{\text{Venus}}$   
su Venere  $\leftarrow$

$$m = 82 \text{ kg}$$

$$P_V = 424 \text{ N}$$

$$R_V = 6,05 \cdot 10^3 \text{ km} = 6,05 \cdot 10^6 \text{ m}$$

$$\triangleright g_V = ?$$

$$\triangleright M_V = ?$$



$$\triangleright g(P)^2 = (-g_A(P) + g_C(P))^2 + g_B(P)^2$$

(Teorema di Pitagore)

$$g(P) \approx 2,04 \cdot 10^{-16} \frac{m}{s^2}$$

(Prendendo la radice)