

## Cap. V

$$V = \sqrt{\frac{GM}{R}} = \sqrt{\frac{2GM}{(a+b)}} = \frac{(a+b)\pi}{T} = \frac{P_{\text{perimetro Ellisse}}}{T} = \frac{2R\pi}{T} = \frac{P_{\text{perimetro Circonferenza}}}{T};$$

Esempio:

posto  $M_{\text{Sole}}=M$ =Massa Sole =  $1989^{30}$ , e assi dei Pianeti:

Afelio	+ $a_{\text{Terra}}=152,1^{11}$	$a_{\text{Venere}}=109^{11}$	$a_{\text{Marte}}=249,1^{11}$
Perielio	+ $b_{\text{Terra}}=147,1^{11}$	$b_{\text{Venere}}=107,4^{11}$	$b_{\text{Marte}}=206,7^{11}$
Totale	= $299,2^{11}$	$216,40^{11}$	$455,8^{11}$

vediamo le velocità per  $2GM_{\text{Sole}}=2 \times 6,670^{-8} 1989^{30}=2,653326^{26}$ :

$$\star V_{\text{Terra}} = \sqrt{\frac{2 \times 6,670^{-8} 1989^{30}}{(299,2^{11})}} = \frac{299,2^{11} \pi}{365,24 \text{gg} \times 86400} = \frac{(a+b)\pi}{T} = \frac{2R\pi}{T} = 29,78649^5 \text{cm/sec}$$

$$\star\star V_{\text{Venere}} = \sqrt{\frac{2 \times 6,670^{-8} 1989^{30}}{(216,40^{11})}} = \frac{216,40^{11} \pi}{224,7 \text{gg} \times 86400} = \frac{(a+b)\pi}{T} = \frac{2R\pi}{T} = 35,017^5 \text{cm/sec}$$

$$\star\star\star V_{\text{Marte}} = \sqrt{\frac{2 \times 6,670^{-8} 1989^{30}}{(455,8^{11})}} = \frac{455,8^{11} \pi}{687 \text{gg} \times 86400} = \frac{(a+b)\pi}{T} = \frac{2R\pi}{T} = 24,127^5 \text{cm/sec}$$

Dalla 4]: