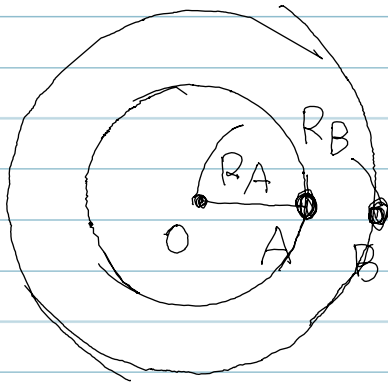


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二個質量相同的質點對同一
定點作等速率圓周運動。若
其週期相同(同步)求(1)速率
的比值(2)向心加速度的比值。



$$V = \frac{2\pi R}{T}$$

$$V_A = \frac{2\pi R_A}{T}$$

$$V_B = \frac{2\pi R_B}{T}$$

$$\frac{V_A}{V_B} = \frac{R_A}{R_B}$$

$$a_c = \frac{V^2}{R} = \frac{4\pi^2 R}{T^2}$$

$$a_{Ac} = \frac{4\pi^2 R_A}{T^2}$$

$$a_B = \frac{4\pi^2 R_B}{T^2}$$

$$\frac{a_{Ac}}{a_{Bc}} = \frac{R_A}{R_B}$$