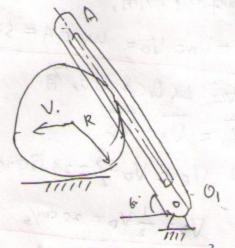
HW.7

16.12. 如图积 0在映面落动,笔附B 车车 0.A 措而动,已知 R=50cm 此时 0, A3国相切, Vo= 20cm/s, ×=60°, 就指杆角连被 名·以转打的加益,O、A的动态有。



Va = Ve + Vr Va = Ve + Vr Ve Wo, Ve O, Ve O,

国国农口多纯活动,有CARSAC,Va连流向如图主, Va上BC

Va= Vo - 53 R = 53 Vo = 2053 com/s,

 $\Rightarrow$  Ve =  $\frac{1}{2}$  Va =  $10\sqrt{3}$  cm/s

 $= ) w_{01} = \frac{Ve}{\overline{0_1 B}} = \frac{10\overline{5} \text{ om/s}}{\overline{5} R} = 0.2 \text{ rad/s} \quad (E) \quad (\#)$ 

16-13: 同示曲本为莲杆机场。OA=5cm, OA 角 进放 Wo=10 vad/s 0,D=7cm, ABS外车有的30°, 我. 对于0,ccs 角色物加速度 考到体ABD, A, B走对如图号示 VI ABI下的各时事物,有, VA = VD = WO · OA = 50 cm/s 以のあすら、いのにあるがら、有: Vo = Vet Vr 同而 Ve=Vo== 255cm/s an  $V_{r} = \frac{1}{2}V_{0} = 25 \text{ cm/s}$ 33 Wo1= Ve = 2553 cm/s = 6.186 Yad/s 12) 对于かきな: 70万例体AB,到用巷湾有 QB=QA+QBA QH = QA, QBA = QBA (WAB=0),  $Q_A^n = w_0^2 OA = 500 \text{ cm/s}^2$ , =>  $Q_B = \frac{Q_A^n}{\sqrt{3}} = \frac{500}{\sqrt{3}} = \frac{500}{\sqrt{3}} = \frac{500}{\sqrt{3}}$ at = ax = 1000 cm/s2 TA:  $\sqrt{AB} = \frac{Q_{DA}^{T}}{\overline{AB}} = \frac{1000 \text{N} \text{ cm/s}^2}{\sqrt{3} \cdot 10 \cdot \text{N}} = \frac{100}{\sqrt{3}} \text{ rad/s}^2$ apa = apa = 90/AB. AD = 100 . (10+3,55) cm/s = 927,4cm/s 国面有 Qp= QA+QDA ヒ人のあるち、の、くめなから有、 ap = an + an = ae + ar + ac 其中: Qe=Wo, O,D # ac= 2. Woi-Vr = 2:6.186.25 = 309.36m/52

对大物段的有。

$$Q_{A} = \frac{15}{2} - Q_{OA} = \frac{15}{2} = Q_{e}^{T} - Q_{c}$$

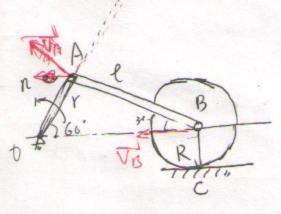
$$\Rightarrow 500.\frac{1}{2} - \frac{100}{53}(10 + 3.55).\frac{5}{2} = Q_{e}^{T} - 2.6.186.25$$

$$\Rightarrow Q_{e}^{T} = \frac{100}{53}(10 + 3.55).\frac{5}{2} = Q_{e}^{T} - 2.6.186.25$$

$$\Rightarrow Q_{e}^{T} = \frac{250 - 921.45}{2} + \frac{5}{2} + \frac{309.3}{2}(cm/s^{2}) = -243.9 \text{ cm/s}^{2} (1)$$

$$\Rightarrow Q_{e}^{T} = \frac{Q_{e}^{T}}{7cm} = -34.8 \text{ rad/s}^{2} (1)$$

16-15如图, 清水电液, OA \$ Y=10cm, n=30r/min。AB\$ l=17.3cm, 清神经R=10cm, 前用記量活動和角速放水角が速放 名文: 考察 AB杆的 这功



) AS两些数如用行子 ABATHS 图 1=17.3cm, ∠AOB=60° UB=斯=有LOAB为直角;

由 周 报 35 5 有 · VA = VB· 6063.

且 AB 南于波 WAB = VB· = 36.28 X = 173 = 150 ad/52

 $\overrightarrow{a_B} = \overrightarrow{a_A} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} = \overrightarrow{a_A} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} = \overrightarrow{a_{AB}} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} = \overrightarrow{a_{AB}} + \overrightarrow{a_{BA}} + \overrightarrow{a_{BA}} = \overrightarrow{a_{AB}} + \overrightarrow{a_{AB}} = \overrightarrow{a_{AB}} + \overrightarrow$ 2)对于加速发育。 アガン" 物物物,有 an · 1= an = an = 00 = 15.2= 12 (m/s)

国场福· 图= aB= 2.27ad/52