

**TOPIC: MANUAL HYDRAULIC PUMP****PRESENTATION**

Let's consider the figure **1**, the assembly drawing of a manual hydraulic pump, and figure **2** the diagram beside this assembly. This hydraulic pump consists essentially of a lever **2** articulated at **J**, a piston **3** which can slide in the body **1** of the pump.

Hypothesis :

- The assembly (set) admits a plane of symmetry
- The weights of elements are neglected

I- SATIC / 7,5points

Aim: Determine the effort exerted by the operator on the lever 2.

I.1 Study of equilibrium of the lever 2. Isolate lever 2 and calculate the external forces applied to it. 1,5pt

I.2 Assuming that friction is neglected and knowing that the action of the piston **3** on the lever **2** is $\|\overrightarrow{K_{3/2}}\| = 80N$, determine graphically \overrightarrow{F} the action of the operator on the lever **2** and $\overrightarrow{J_{5/2}}$. Scale of forces: 1cm \Leftrightarrow 10N. **3pt**

I.3 Considering that $f = 0,15$ coefficient of friction between **2** and **3**, determine through calculation \overrightarrow{F} and $\overrightarrow{J_{5/2}}$ knowing that $\|\overrightarrow{K_{3/2}}\| = 72N$. **3pt**

II- KINEMATIC / 7,5points

Aim: Determine the velocity of execution of the operator's hand at the point L.

Hypothesis and data :

- The device occupies the position defined by figure 5 (page 4/4)
- The of pieces **1**, **5** and **4** is fixed;
- Scale of velocities: $2mm \Leftrightarrow 1mm/s$
- The descending velocity of the piston **3** relative to the body **1** is 22mm/s.

II.1 What is the nature of movement of **3** with respect to **1**? Plot the trajectory $T_{K3/1}$ and the velocity $\overrightarrow{V_{K3/1}}$. **2pt**

II.2 What is the nature of movement of **2** with respect to **1**? plot the trajectory $T_{K2/1}$ and the support of the velocity vector $\overrightarrow{V_{K2/1}}$. **2pt**

II.3 Write the relation of composition of velocities at the point **K** between the solids **1**, **2** and **3**. **1pt**

II.4 Graphical determination of $\|\overrightarrow{V_{K2/1}}\|$ and the sliding velocity $\overrightarrow{V_{K3/2}}$. **1,5pt**

II.5 Graphical determination of $\|\overrightarrow{V_{L2/1}}\|$ executed by the hand of the operator at the point **L**. **1pt**

III- STRENGTH OF MATERIALS 5points

Aim: Dimensioning of the pin 5.

Considering that the action on the axis of the pin is 150N, $R_{pg} = 120MPa$

III.1 Specify the type of stress that the pin **5** is subjected to. **1pt**

III.2 Determine the theoretical diameter of the pin **5**. **2pt**

III.3 Knowing that the practical diameter adopted is 4mm and $R_{pg} = 48MPa$, determine the chosen coefficient of security **s**. **2pt**

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Michael Rajnik



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