## «Introduction to Mechanical Engineering» **Quiz 1**

## Task 1

- 1. What does it mean? You should explain each part of this notation (fig. 1).
- 2. Using which 4 basic operations you can design almost any solid part in CAD. Explain your choice with an example.

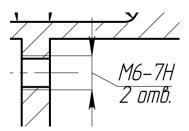
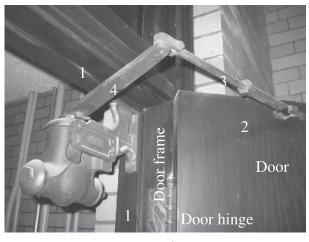
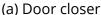


Figure 1: Task 1.1

## Task 2

- 1. What the difference between lower and higher kinematic pairs. Provide examples of both types, using kinematic scheme notation.
- 2. Draw a kinematic schemes of the mechanisms (fig. 2).







(b) 6R Manipulator

Figure 2: Task 2.2

## Task 3

1. Provide at least 4 types of drives. Pros and cons.