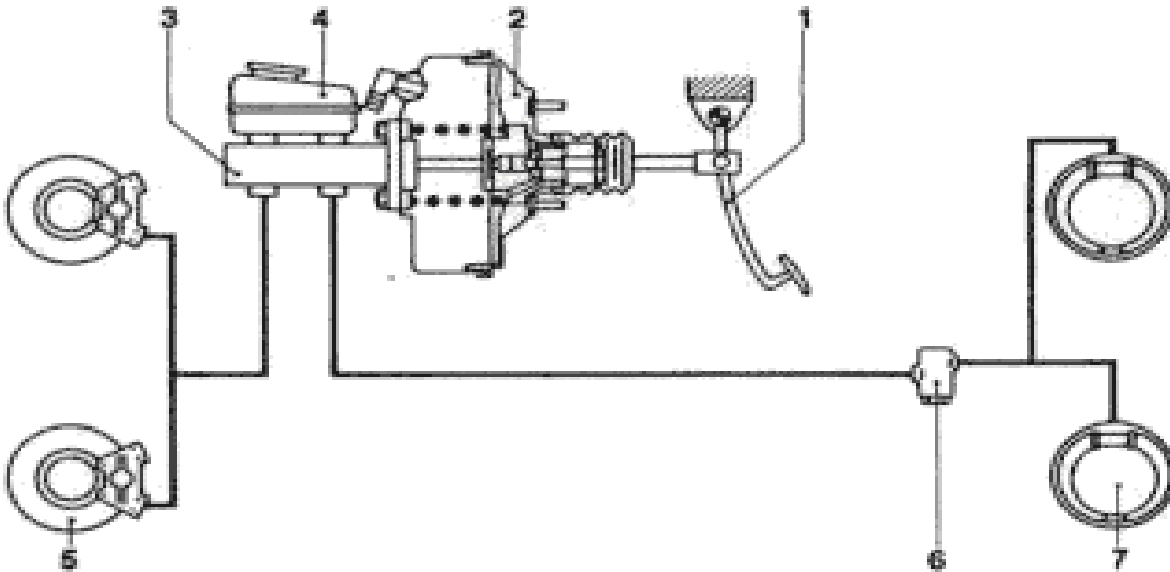


## Mechanical Systems

### Topic 6 - Combining Systems Practice Quiz

1. Use the illustration, of a hydraulic disc brake system, below to answer the question.



The effort force required to slow the vehicle in this disc brake hydraulic system would be applied at number ...

- 1
- 3
- 5
- 7
2. During the research phase, when a device is improved upon, certain criteria are taken into account. Of the criteria listed below, which would be the least important ...

**safety**

**efficiency**

**effectiveness**

**convenience**

3. The 'backhoe' is a highly efficient combination of 3 different types of levers and this ...  
**wheel and axle**

**pulley**

**hydraulics**

**pneumatics**

4. When we can identify a simple machine, within a much more complicated machine, the simple machine is called a ...

**segment**

**subsystem**

**function**

**prototype**

5. The '**boom**' raises and lowers the '**dipper**'. It is a ...

**Class 1 lever**

**Class 2 lever**

**Class 3 lever**

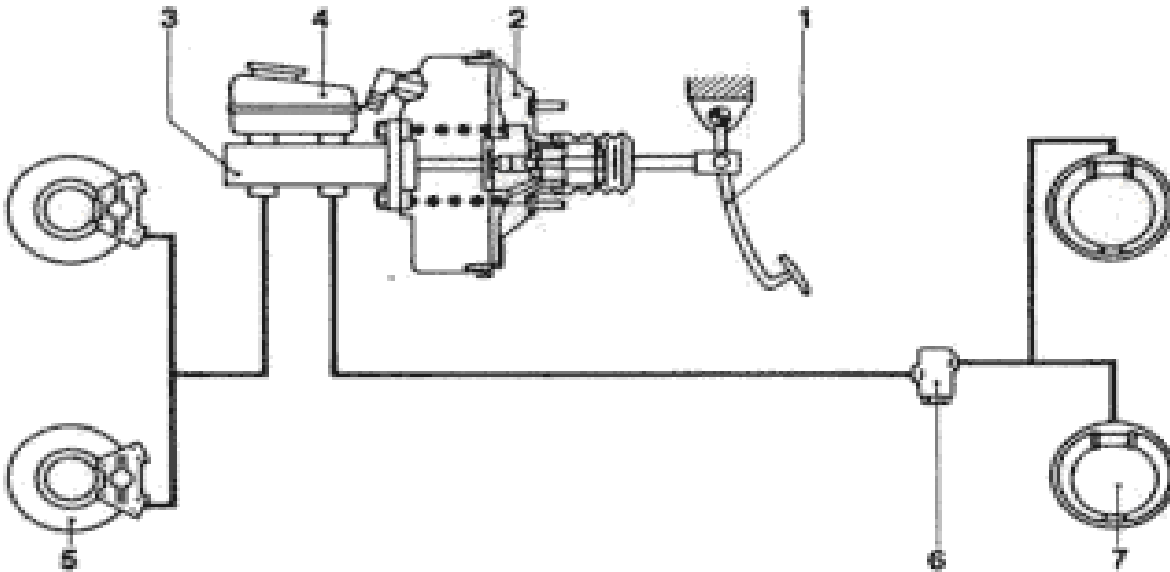
**Class 4 lever**

**Check your**  
**Answers**

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