| Suppose that you are able to exert a force of 300 N on the piston of a hydraulic lift. The piston has an area of 0.64 m². What does the area of the other plunger have to be if you want to lift a load of 200 N? |
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| A system requires you to exert a force of 20 N in order to lift a load of 120 N. What is the mechanical advantage of this system? |
| Suppose that you want to lift a 120 N load a distance of 2 m using the system in question 2. Approximately how far do you have to push the piston as you exert your pressure force? |
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