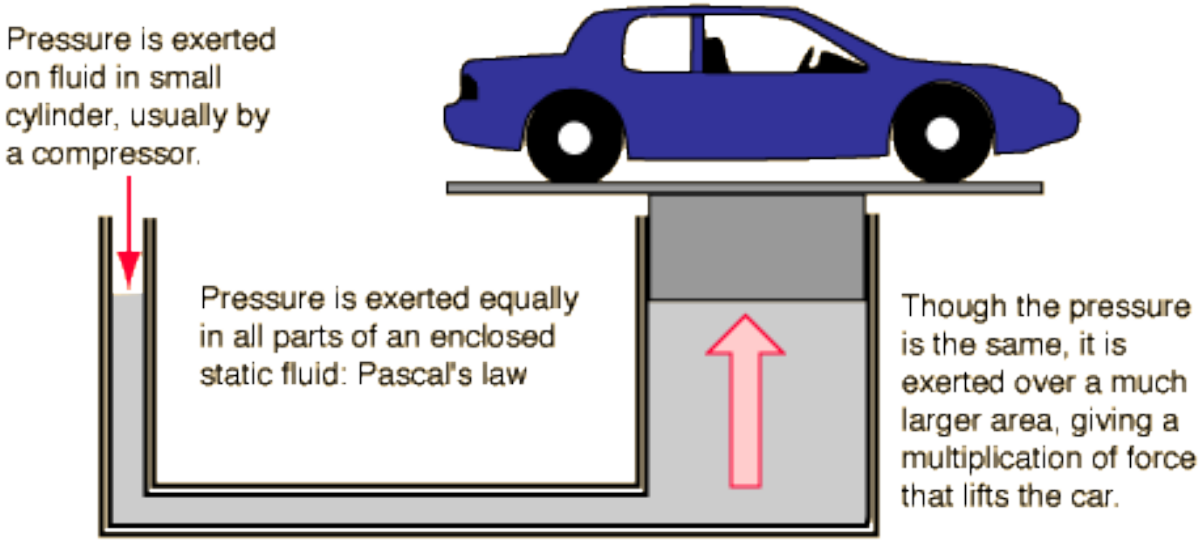
Warm Up



A hydraulic lift is used to lift a heavy machine that is pushing down on a 5 m^2 piston A_1 with a force F_1 of 700 N. What force F_2 needs to be exerted on a 0.007 m^2 piston A_2 to lift the machine?