1. Manometry

* 1. The advantage of having an incline in the tube is that only the vertical component is used in the calculation of pressure. Because of the incline, the values are larger and proportional to the vertical component, allowing for more accuracy in measurement of the height of the column of fluid.

1. Hydraulic Press

The other piston will move 0.2 in upward.

* 1. The conservation of mass (then through density, the conservation of volume)
  2. A small force can be used to exert a much larger force on the other piston. This creates a huge mechanical advantage, which is the reason presses such as this are used.