

$$F = \frac{f}{A} = \frac{1200}{\pi(0.5)^2} = f$$

$$85 \text{ mmHg} \times \frac{133 \text{ Pa}}{1 \text{ mmHg}} = 11,305$$

$$6 \text{ cm}^2 \times \frac{\text{m}^2}{104 \text{ cm}^2} = 0.0577$$

$$F = PA \approx 65$$

$$f = 3 \text{ N}$$

$$p = \rho gh$$

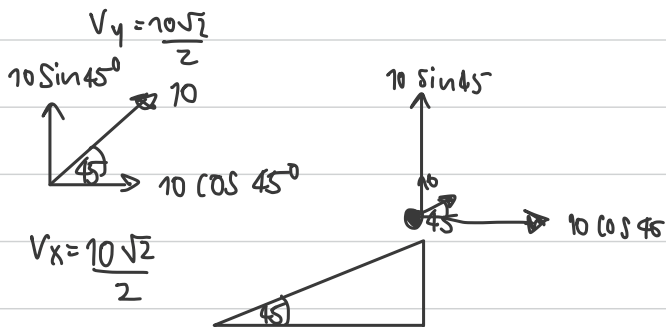
$$a =$$

$$1 \text{ cm}^2 \times \frac{1 \text{ m}}{104} = 0.0001 \text{ m}^2$$

$$F = PA \quad p = \frac{F}{A} = \frac{3}{0.0001}$$

$$p = 3000 \text{ Pa}$$

$$\approx 22.5 \text{ mmHg}$$



$$V_x = \frac{10\sqrt{2}}{2}$$

$$s = vt$$

$$\frac{s}{v} = t$$

$$\frac{10\sqrt{2}}{2} = 0.70$$

$$s = \left(\frac{10\sqrt{2}}{2}\right)(0.7) - \frac{1}{2}(10)(0.7)^2$$

$$= 1.49$$