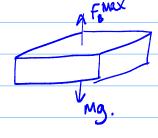
PHYS226 - HW1.

$$\Delta P = pgh = (030 \frac{M}{M^2})(9.8 \frac{M}{M})(10972.8 m)(\frac{101325 M}{101325 M})$$

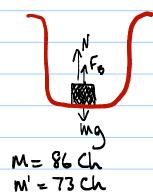
1(d).

3,



$$A = \frac{M}{d(g_{\omega} - g_{ice})} = \frac{1000 \text{ kg}}{(0.5 \text{ m})(1000 \frac{\text{kg}}{\text{m}^3} - 916.7 \frac{\text{kg}}{\text{m}^3})}$$

4



JW = 1000 kg

$$\Rightarrow S = \frac{M}{V} = \frac{M}{(86 \text{ ch} - 73 \text{ ch})} = \frac{M}{M - M!} S_{W}$$

$$= \frac{86 \text{ ch}}{(86 \text{ ch} - 73 \text{ ch})} (1000 \frac{\text{kg}}{\text{M}^{3}}) = 6615 \frac{\text{kg}}{\text{M}^{3}} \text{ (b)}$$

5. ~ 500 cm3 (c)

$$\frac{g}{g} = 0.8 \quad g = 500 \text{ kg} \quad m = 3.00 \text{ kg}$$

$$m_{L} = ?$$

$$m_{bot} = m_{W} = g_{W} \vee g + g_{W} \vee g$$

$$m_{L} = m_{W} = g_{W} \times g + g_{W} \times g$$

$$m_{L} + m_{S} = g_{W} \times g + g_{W} \times g$$

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$$g_{W} + g_{W} = g_{$$

P.3.

area A

$$0 \neq 0 \quad y = h$$

find $t = ?$ when $y = 0$
 $0 \neq 0 \quad y = h$

area a

 $0 \neq 0 \quad y = h$

from Torricelli

 $0 \neq 0 \quad y = h$
 $0 \neq 0 \quad y =$

$$\frac{\delta y}{\delta t} = -\frac{1}{A} 29y$$

$$\int_{3=h}^{3=0} \frac{dy}{dy} = -\frac{a}{A} \sqrt{29} dt$$

$$\frac{dy}{dy} = -\frac{a}{A} \sqrt{29} dt$$

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$$f = \frac{A}{a}\sqrt{\frac{2h}{g}}$$