

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Chapter 1 - Section A - Mathcad Solutions

1.4 The equation that relates deg F to deg C is $(F) = 1.8 (C) + 32$. Solve this equation by setting $(F) = 100$.

Given $t = 1.8t + 32$ **find** $t = -9$ **Ans.**

1.5 By definition: $p = \frac{F}{A}$ $F = \text{mass} \cdot g$ Note: Pressures are in gauge pressure.
 $p = 3000 \text{ Pa}$ $D = 4 \text{ mm}$ $\Delta h = \frac{\rho}{\rho_f} \Delta h^2$ $A = 12.566 \text{ mm}^2$
 $F = p \cdot A$ $g = 9.807 \frac{\text{m}}{\text{s}^2}$ $\text{mass} = \frac{F}{g}$ **mass = 384.4g** **Ans.**

1.6 By definition: $p = \frac{F}{A}$ $F = \text{mass} \cdot g$
 $p = 3000 \text{ Pa}$ $D = 0.175 \text{ m}$ $A = \frac{\pi}{4} D^2$ $A = 0.023 \text{ m}^2$
 $F = p \cdot A$ $g = 32.174 \frac{\text{ft}}{\text{sec}^2}$ $\text{mass} = \frac{F}{g}$ **mass = 1069.7 lb** **Ans.**

1.7 $P_{\text{abs}} = p \cdot g \cdot h + P_{\text{atm}}$
 $p = 11.535 \frac{\text{lbm}}{\text{ft}^3}$ $g = 9.832 \frac{\text{m}}{\text{s}^2}$ $h = 56.38 \text{ m}$
 $P_{\text{atm}} = 101.798 \text{ Pa}$ $P_{\text{abs}} = p \cdot g \cdot h + P_{\text{atm}}$ **$P_{\text{abs}} = 176.809 \text{ Pa}$** **Ans.**

1.8 $p = 11.535 \frac{\text{lbm}}{\text{ft}^3}$ $g = 32.243 \frac{\text{ft}}{\text{s}^2}$ $h = 25.626 \text{ ft}$
 $P_{\text{atm}} = 29.366 \text{ psi}$ $P_{\text{abs}} = p \cdot g \cdot h + P_{\text{atm}}$ **$P_{\text{abs}} = 27.22 \text{ psi}$** **Ans.**

[Download PDF version of :
Solution Manual For Thermodynamics](#)