

#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  $t = -40$  Ans.

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

1.6 By definition:  $P = \frac{F}{A}$   $F = \text{mass} \cdot g$   
 $P = 3000 \text{ Pa}$   $D = 0.175 \text{ m}$   $A = \frac{\pi}{4} D^2$   $A = 0.0238 \text{ m}^2$   
 $F = P \cdot A$   $g = 32.174 \frac{\text{ft}}{\text{sec}^2}$   $\text{mass} = \frac{F}{g}$   $\text{mass} = 1069.7 \text{ lb}$  Ans.

1.7  $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$   
 $\rho = 11.555 \frac{\text{lbm}}{\text{ft}^3}$   $g = 9.832 \frac{\text{m}}{\text{s}^2}$   $h = 56.38 \text{ m}$   
 $P_{\text{atm}} = 101.798 \text{ Pa}$   $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$   $P_{\text{abs}} = 176.809 \text{ Pa}$  Ans.

1.8  $\rho = 11.555 \frac{\text{lbm}}{\text{ft}^3}$   $g = 32.243 \frac{\text{ft}}{\text{s}^2}$   $h = 25.626 \text{ ft}$   
 $P_{\text{atm}} = 29.366 \text{ psia}$   $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$   $P_{\text{abs}} = 27.22 \text{ psia}$  Ans.

[Download PDF version of :](#)  
**Smith Van Ness Thermodynamics 6th Edition Solutions**