# Chapter 1 - Section A - Mathcad Solutions

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

Guess solution: t := 0

Given t = 1.8t + 32

Find(t) = -40 Ans.

1.5 By definition:  $P = \frac{F}{A}$  F = mass-g Note: Pressures are in gauge pressure.

P := 3000bar D := 4mm  $\triangle := \frac{\pi}{4} \cdot D^2$  A = 12.566mm<sup>2</sup>

 $\underline{F} := P \cdot A$   $g = 9.807 \frac{m}{c^2}$  mass  $:= \frac{F}{g}$  mass = 384.4 kg Ans.

1.6 By definition:  $P = \frac{F}{A}$  F = mass-g

P := 3000atm D := 0.17in  $A := \frac{\pi}{4} \cdot D^2 \quad A = 0.023 \text{ in}^2$ 

 $F:=P\cdot A \qquad \qquad g=32.174\frac{ft}{\sec^2} \qquad mass:=\frac{F}{g} \qquad mass=1000.71b_{m} \quad Ans.$ 

1.7  $P_{abs} = \rho \cdot g \cdot h + P_{atm}$ 

 $\rho := 13.535 \cdot \frac{gm}{cm^3}$   $g := 9.832 \cdot \frac{m}{s^2}$  h := 56.38cm

 $P_{atm} := 101.78 kPa$   $P_{abs} := \rho \cdot g \cdot h + P_{atm}$   $P_{abs} = 176.808 kPa$  Ans.

1.8  $\rho := 13.535 \cdot \frac{gm}{cm^3}$   $g := 32.243 \cdot \frac{ft}{s^2}$  h := 25.62in

 $P_{atm} := 29.86in_Hg$   $P_{abs} := \rho \cdot g \cdot h + P_{atm}$   $P_{abs} = 27.22 psia$  Ans.

# **Solution Manual Chemical Engineering Kinetics**

**Joseph Mauk Smith** 

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