Chapter 8

8.1

$$V = \frac{RT}{P} = \frac{0.082054\,(375)}{2.0}$$

$$V = 15.38513$$

For van der Waal

$$\left(2.0 + \frac{12.02}{V^2}\right)(V - 0.08407) = 0.082054\,(375)$$

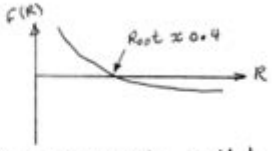
bisection on Toolkit gives

$x_l = 10 \quad x_u = 20 \quad \epsilon_s = 0.001\%$

$x_r = 15.84641$ in 16 iterations

8.2

$$f(R) = \frac{R+1}{R(1+0.1R)} - \ln\left(\frac{1+0.1R}{0.1R}\right)$$



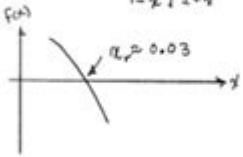
using Bisection from Toolkit

with $R_l = 0.01 \quad R_u = 2 \quad \epsilon_s = 0.001\%$

gives $R_{root} = 0.429944$ in 19 iterations

8.3

$$f(x) = 0.05 - \frac{x}{1-x}\sqrt{\frac{6}{2+x}}$$



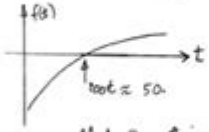
Use Toolkit Bisection

$x_l = 0.01 \quad x_u = 0.05$

$\epsilon_s = 0.001\%$ gives

$x_r = 0.02829936$ in 18 iterations

8.4 $f(t) = 10\left(1 - e^{-0.04t}\right) + 4e^{-0.04t} - 0.93(10)$



Use Toolkit Bisection

$t_l = 0 \quad t_u = 100 \quad \epsilon_s = 0.001\%$

gives $t_r = 53.71056$

in 18 iterations

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