

MAAE 2400 (Fall/2012)

Problem Assignment #1 (due September 13th)

Work on the following problems (1 week, submit next week during class) from Fundamentals of Engineering Thermodynamics, 7th Edition, by Moran, Shapiro, Boettner, and Bailey:

1.7 (30.97 ft/s², 150 lbf)

1.23 (0.17 kmol, 1.02×10^{26})

1.42 (150 kPa, 1.48 atm, 100 kPa, 0.99 atm)

1.52 (2258.15 K, 4064.67 °R, 3605 °F)

If you have the 6th Edition:

1.7 (30.97 ft/s², 150 lbf)

~~1.22~~ 1.24 (0.17 kmol, 1.02×10^{26})

1.42 (150 kPa, 1.48 atm, 100 kPa, 0.99 atm)

1.52 (2258.15 K, 4064.67 °R, 3605 °F)