Example 3.7

Result

```
(a) By Ideal gas Equation
V =
 3.934
m^3/kmol
Z =
 1.
(b) Using Eqution 3.37 -> Z=PV/RT=1+BP/RT
V =
 3.546
m^3/kmol
Z =
 0.9014
(c) Using Equation 3.39 -> Z=PV/RT=1+(B/V)+(C/(V^2))
V =
 3.488
m^3/kmol
Z =
 0.8867
```