**Dew T**

1. Know $y_i, P$
   Calc $P_i^{sat}$. Assume Raoult’s law for first $T, x_i$ calculation, then calc $\gamma_i$ at $x_i$.

2. Adjust $T$ until $\sum_i \frac{y_i P}{\gamma_i P_i^{sat}} = 1$

3. $x_i = \frac{y_i P_{\gamma_i P_i^{sat}}}{}$

4. $x_i$ changed? Yes for first loop pass.

5. Calc $\gamma_i$ at new $x_i$

**Bubble P**

1. Know $x_i, T$. Calc $\gamma_i, P_i^{sat}$

2. $P = x_1 \gamma_1 P_1^{sat} + x_2 \gamma_2 P_2^{sat}$

3. $y_i = \frac{x_i \gamma_i P_i^{sat}}{P} = x_i K_i$

4. $y_T = \sum y_i$

5. $y_T = 1$?
   Yes
   6. Dew $T$ and $x_i$ found
   No
   7. Guess $T$

**Bubble T (choose one)**

1. Know $x_i, P$ Guess $T$ (e.g. eq 9.62)

2. Calc $\gamma_i, P_i^{sat}$

3. $y_i = \frac{x_i \gamma_i P_i^{sat}}{P} = x_i K_i$

4. $y_T = \sum y_i$

5. $y_T = 1$?
   Yes
   6. Bubble $T$ and $x_i$ found
   No
   7. Guess $T$

8. Bubble $T$ and $x_i$ found