TEXTBOOK HOMEWORK

17.29  Not at equilibrium. Will move towards left

17.38  28.2 atm

17.41  1.61x10^{-3} M

17.44  [I_2] = [Cl_2] = 0.020 M  [ICl] = 0.060 M

17.46  6.0x10^{-6}

17.47  P_{CO} = 0.713 atm, P_{CO_2} = 0.287 atm

17.56  (a) Move to right. No change in K
       (b) Move to right. No change in K

17.61  (a) Move to right. K will increase
       (b) Move to right. K will increase
       (c) Move to right. K will increase
       (d) Move to left. K will decrease

SUPPLEMENTARY HOMEWORK

S1.  D

S2.  C

S3.  D

S4.  E

S5.  C

S6.  [NH_3]/[H_2] will
     (a) Increase
     (b) Remain the same
     (c) Decrease
     (d) Increase
     (e) Increase. In addition, K_c will increase
S7. 0.66
S8. 0.16
S9. 0.88 M
S10. 4500
S11. (a) $\Delta H^o = -41.4$ kJ/mol
     (b) $K_c = 22.4$
     (c) $T = 620$ °C
S12. 0.0067 M
S13. 39.