Equilibrium Constant Homework

Write the equilibrium expressions for the following unbalanced equations:

1)
$$PF_3 + _F_2 \leftrightarrows PF_5$$

2)
$$H_2 + Cl_2 \leftrightarrows HCl$$

4)
$$\underline{\qquad}$$
 $F_2 + \underline{\qquad}$ $CO \leftrightarrows \underline{\qquad}$ F_2CO

Find the equilibrium constants for the following reactions using the information given:

5)
$$N_2O_4 \leftrightarrows NO_2$$

$$[N_2O_4] = 0.65 \text{ M}, [NO_2] = 0.25 \text{ M}$$

$$[HI] = 0.55 \text{ M}, [H_2O_2] = 0.80 \text{ M}, [H_2O] = 0.50 \text{ M}, [I_2] = 0.75 \text{ M}$$